

RESULTS  
OF  
OBSERVATIONS OF THE FIXED STARS

MADE WITH THE  
MERIDIAN CIRCLE

AT THE  
GOVERNMENT OBSERVATORY MADRAS

IN THE YEARS 1874, 1875, AND 1876

UNDER THE DIRECTION OF THE LATE

NORMAN ROBERT POGSON, C.I.E., F.R.A.S.

BY

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OFFICIATING GOVERNMENT ASTRONOMER AT MADRAS

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PUBLISHED BY ORDER OF THE GOVERNMENT OF MADRAS

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MADRAS  
PRINTED AT THE LAWRENCE ASYLUM PRESS, BY G. W. TAYLOR  
1892

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## INTRODUCTION.

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The present volume deals with the Meridian Circle Observations made in the years 1874-75-76. The Observers were Moottoosawmy Pillay (M) and a new Observer P. Ragavachari (R) who is now First Observatory Assistant. A number of observations were also made by another observer (G) but the whole of these have had to be rejected. During these three years a comparatively small number of observations were made and I gather from the Annual Administration Reports that the reason for this was that the staff was chiefly employed in bringing up arrears of reductions. It seems, too, that the intention was to confine the Catalogue to the stars that had been observed up to that time. In 1877, however, it was resolved to increase the number of stars observed so that the next volume will deal with 9,637 observations and the volume for 1880-81-82 with 9,267 observations. A final volume will contain the 4,052 observations made between 1883 and 1887, when the work was closed.

During the years dealt with in this volume no change was made either in the instrument or in the methods of reduction.

*Instrumental Corrections adopted in 1874.*

Date.	Obs.	Index.	Run in 5'.	Clock Rate.	Inclina- tion.	Collima- tion.	Meridian.	Determining Stars.
		"	"	s	s	s	s	
Jan. 1	M	- 5.8	- 0.4	- 0.11	+ 0.18	+ 0.04	+ 0.31	34 and 115 R. P. L.
3	"	- 7.8	- 0.4	- 0.04	+ 0.15	+ 0.01	+ 0.43	116 R. P. L. and $\eta$ Tauri.
5	"	- 7.6	- 0.4	- 0.06	+ 0.14	- 0.02	+ 0.29	42 and 116 R. P. L.
6	"	- 7.4	- 0.4	- 0.07	+ 0.18	+ 0.01	+ 0.26	
7	"	- 7.8	- 0.4	- 0.06	+ 0.15	- 0.02	+ 0.23	26 and 115 R. P. L.
8	"	- 8.4	- 0.4	- 0.11	+ 0.18	0.00	+ 0.36	111 R. P. L. and $\epsilon$ Tauri.
9	"	- 9.2	- 0.4	- 0.12	+ 0.14	- 0.02	+ 0.38	
10	"	- 9.6	- 0.4	- 0.04	+ 0.15	+ 0.02	+ 0.41	111 R. P. L. and $\eta$ Tauri.
12	"	- 10.3	- 0.4	- 0.09	+ 0.09	- 0.03	+ 0.36	45 and 116 R. P. L.
13	R	- 9.6	- 0.4	- 0.10	+ 0.13	+ 0.02	+ 0.44	
14	M	- 11.7	- 0.4	+ 0.03	+ 0.14	+ 0.02	+ 0.53	34 and 111 R. P. L.
15	"	- 11.1	- 0.4	+ 0.02	+ 0.07	- 0.01	+ 0.28	42 and 111 R. P. L.
16	"	- 12.0	- 0.4	+ 0.11	+ 0.12	+ 0.02	+ 0.29	42 and 111 R. P. L.
17	"	- 11.8	- 0.4	+ 0.18	+ 0.07	- 0.01	+ 0.32	42 R.P.L. & 2293 Redhill.
19	"	- 11.4	- 0.4	- 0.09	+ 0.09	- 0.03	+ 0.31	42 R.P.L. & 2293 Redhill.
20	M & R	- 12.5	- 0.4	0.00	+ 0.12	- 0.03	+ 0.33	42 R.P.L. & 2293 Redhill.
21	M	- 12.2	- 0.4	+ 0.06	+ 0.12	- 0.03	+ 0.29	42 R.P.L. & 2293 Redhill.
22	"	- 11.5	- 0.4	+ 0.05	+ 0.16	0.00	+ 0.45	34 R.P.L. and $\alpha$ Eridani.
23	"	- 11.8	- 0.4	+ 0.13	+ 0.17	- 0.02	+ 0.28	42 R.P.L. & 2293 Redhill.
24	"	- 12.0	- 0.4	+ 0.17	+ 0.17	- 0.02	+ 0.29	42 R.P.L. & 2293 Redhill.
26	"	- 12.1	- 0.4	- 0.05	+ 0.16	- 0.03	+ 0.17	42 R. P. L. & 24 Urs. Min.
27	R	- 12.2	- 0.4	- 0.07	+ 0.19	+ 0.01	+ 0.41	43 R.P.L. & 2293 Redhill.
28	"	- 11.8	- 0.4	+ 0.13	+ 0.16	- 0.01	+ 0.35	2293 Redhill and $\epsilon$ Aurigæ.
29	"	- 12.7	- 0.4	+ 0.12	+ 0.18	+ 0.01	+ 0.36	43 R.P.L. & 2293 Redhill.
30	"	- 12.9	- 0.4	+ 0.12	+ 0.20	+ 0.03	+ 0.37	43 R.P.L. & 2293 Redhill.
31	"	- 12.3	- 0.4	+ 0.15	+ 0.18	+ 0.01	+ 0.24	43 and 114 R. P. L.
Feb. 2	"	- 13.1	- 0.2	+ 0.09	+ 0.18	+ 0.01	+ 0.32	43 and 116 R. P. L.
3	"	- 13.1	- 0.2	+ 0.11	+ 0.17	0.00	+ 0.36	45 R. P. L. & 24 Urs. Min.
4	"	- 12.7	- 0.2	+ 0.18	+ 0.18	0.00	+ 0.29	24 Urs. Min. and $\beta$ Tauri.
5	"	- 12.9	- 0.2	+ 0.13	+ 0.17	0.00	+ 0.36	45 R. P. L. & 24 Urs. Min.
6	"	- 12.7	- 0.2	+ 0.17	+ 0.19	+ 0.01	+ 0.38	45 R. P. L. & 24 Urs. Min.
7	"	- 12.3	- 0.2	+ 0.25	+ 0.20	0.00	+ 0.28	49 R. P. L. & 24 Urs. Min.
9	"	- 13.0	- 0.2	+ 0.19	+ 0.18	0.00	+ 0.08	49 R. P. L. and 24 Cephei.
10	"	- 12.6	- 0.2	+ 0.13	+ 0.19	0.00	+ 0.07	69 R.P.L. and 24 Cephei.
11	"	- 13.9	- 0.2	+ 0.16	+ 0.20	- 0.01	- 0.01	24 Cephei and $\epsilon$ Aurigæ.
12	"	- 13.0	- 0.2	+ 0.25	+ 0.21	+ 0.01	- 0.03	24 Cephei and $\beta$ Tauri.
13	"	- 13.2	- 0.2	+ 0.09	+ 0.19	- 0.01	0.00	
14	"	- 13.6	- 0.2	+ 0.05	+ 0.21	0.00	+ 0.04	
16	"	- 13.6	- 0.2	+ 0.01	+ 0.19	0.00	+ 0.11	
18	"	- 13.4	- 0.2	+ 0.04	+ 0.18	- 0.01	+ 0.18	
19	"	- 13.5	- 0.2	+ 0.05	+ 0.19	- 0.01	+ 0.21	
20	"	- 13.3	- 0.2	0.00	+ 0.19	- 0.01	+ 0.25	60 and 150 R. P. L.
21	"	- 13.4	- 0.2	+ 0.02	+ 0.18	- 0.01	+ 0.16	72 and 150 R. P. L.
23	"	- 14.3	- 0.2	+ 0.07	+ 0.18	0.00	+ 0.26	72 and 143 R. P. L.
24	"	- 13.1	- 0.2	+ 0.10	+ 0.18	0.00	+ 0.27	72 and 143 R. P. L.
25	"	- 13.7	- 0.2	+ 0.05	+ 0.16	- 0.01	+ 0.13	69 and 151 R. P. L.
26	"	- 14.0	- 0.2	+ 0.03	+ 0.17	- 0.01	+ 0.18	
27	"	- 13.7	- 0.2	+ 0.09	+ 0.17	0.00	+ 0.24	
28	"	- 13.7	- 0.2	+ 0.14	+ 0.18	+ 0.01	+ 0.30	60 and 151 R. P. L.
Mar. 2	M	- 14.2	...	+ 0.14	+ 0.19	+ 0.02	+ 0.13	70 R.P.L. and 24 Cephei.
3	"	- 15.0	...	+ 0.12	+ 0.20	+ 0.01	+ 0.32	70, 143 and 151 R. P. L.
4	"	- 15.1	- 0.4	+ 0.23	+ 0.17	- 0.02	+ 0.25	70 and 151 R. P. L. [Min.
5	"	- 14.7	- 0.4	+ 0.18	+ 0.13	- 0.05	+ 0.26	72, 143, 153 R.P.L. & $\lambda$ Urs.
6	"	- 16.1	- 0.4	- 0.01	+ 0.17	- 0.01	+ 0.30	79, 143 and 151 R. P. L. and $\lambda$ Ursæ Minoris.
7	R	- 13.5	- 0.4	+ 0.01	+ 0.21	+ 0.04	+ 0.22	79 R.P.L. & 24 Cephei.

P. Ragavacharry taken as zero of Personal Equation from January 1st, instead of N. R. Pogson, assuming until further determinations. N. R. Pogson—0.30;—C. Ragoonathacharry—0.68; and Moottoosawmy Pillay—0.43.

*Instrumental Corrections adopted in 1874.*

Date.	Obs.	Index.	Run in 5'.	Clock Rate.	Inclina- tion.	Collima- tion.	Meridian.	Determining Stars.
		"	"	s	s	s	s	
Mar. 9	M	-14.0	-0.4	+0.23	+0.31	+0.04	+0.36	79 and 153 R. P. L.
10	"	-15.3	-0.4	+0.21	+0.29	+0.03	+0.29	79 and 151 R. P. L.
11	"	-15.4	-0.4	+0.07	+0.22	-0.01	+0.24	79 and 153 R. P. L.
12	R	-13.9	-0.4	+0.04	+0.23	0.00	+0.21	79 R.P.L. and 24 Cephei.
13	"	-14.5	-0.4	+0.16	+0.23	+0.01	+0.24	79 R.P.L. and 24 Cephei.
14	"	-14.2	-0.4	+0.19	+0.21	0.00	+0.22	87 and 153 R. P. L.
16	"	-13.9	-0.4	+0.16	+0.22	0.00	+0.29	87 and 143 R. P. L.
17	"	-14.6	-0.4	+0.16	+0.21	0.00	+0.30	87 and 143 R. P. L.
19	"	-14.9	-0.4	+0.15	+0.24	-0.01	+0.25	87 and 153 R. P. L.
20	"	-14.8	-0.4	+0.16	+0.27	0.00	+0.29	87 and 153 R. P. L.
21	"	-14.9	-0.4	+0.13	+0.28	-0.01	+0.25	10 and 90 R. P. L.
23	"	-13.7	-0.4	+0.06	+0.33	0.00	+0.29	90 and 153 R. P. L.
24	"	-14.3	-0.4	+0.08	+0.32	-0.01	+0.30	
25	"	-13.7	-0.4	+0.09	+0.34	0.00	+0.31	
27	"	-14.9	-0.4	+0.11	+0.32	0.00	+0.32	
28	"	-15.1	-0.4	+0.14	+0.28	-0.01	+0.32	
30	"	-14.1	-0.4	+0.23	+0.32	-0.01	+0.33	153 R. P. L. and $\gamma$ Cancri.
31	"	-13.5	-0.4	+0.03	+0.33	-0.01	+0.37	98 and 18 R. P. L.
Apl. 1	M	-15.2	-0.4	-0.15	+0.42	+0.03	+0.38	
4	R	-14.0	-0.4	+0.17	+0.38	0.00	+0.42	98 and 153 R. P. L.
6	"	-13.7	-0.4	+0.20	+0.36	+0.01	+0.40	98 and 153 R. P. L.
8	"	-13.1	-0.4	+0.09	+0.32	0.00	+0.41	98 and 153 R. P. L.
9	"	-14.6	-0.4	+0.09	+0.31	+0.01	+0.36	
11	"	-14.0	-0.4	+0.15	+0.34	+0.01	+0.33	98 and 18 R. P. L.
13	"	-14.8	-0.4	+0.25	+0.37	+0.01	+0.34	98 and 18 R. P. L.
14	"	-14.8	-0.4	+0.25	+0.36	-0.01	+0.33	98 R. P. L. and Polaris.
15	"	-14.5	-0.4	+0.27	+0.38	+0.02	+0.36	98 and 18 R. P. L.
16	"	-14.1	-0.4	+0.27	+0.38	+0.02	+0.35	98 and 18 R. P. L.
17	"	-14.0	-0.4	+0.17	+0.40	+0.01	+0.35	98 and 18 R. P. L.
20	M	-15.8	-0.4	+0.03	+0.43	-0.01	+0.35	103 and 14 R. P. L.
21	"	-15.1	-0.4	+0.05	+0.49	+0.04	+0.38	101 and 10 R. P. L.
22	O R	-13.6	-0.4	+0.05	+0.47	+0.02	+0.38	
23	R	-15.2	-0.4	+0.04	+0.40	+0.03	+0.38	101 and 10 R. P. L.
24	"	-15.2	-0.4	+0.19	+0.44	+0.05	+0.43	101 and 10 R. P. L.
25	"	-14.6	-0.4	+0.23	+0.45	+0.03	+0.43	
27	"	-13.6	-0.4	+0.05	+0.48	+0.03	+0.44	101 and 10 R. P. L.
29	"	-14.6	-0.4	+0.10	+0.44	+0.01	+0.43	
30	"	-16.2	-0.4	+0.09	+0.44	+0.02	+0.42	
May 1	G	-14.6	+0.3	+0.02	+0.44	0.00	+0.41	
2	"	-18.7	+0.3	+0.31	+0.41	-0.04	+0.40	
7	"	-8.4	+0.3	-0.25	+0.30	+0.05	+0.37	
8	"	-7.9	+0.3	+0.03	+0.24	+0.01	+0.36	35 R. P. L. and $\beta$ Leonis.
9	"	-7.1	+0.3	+0.26	+0.26	+0.02	+0.17	
11	"	-7.1	+0.3	-0.19	+0.25	+0.05	-0.20	111 and 14 R. P. L.
12	"	-7.0	+0.3	+0.04	+0.29	+0.02	+0.40	114 and 33 R. P. L.
13	"	-7.2	+0.3	+0.36	+0.35	+0.04	+0.26	
15	"	-9.1	+0.3	+0.41	+0.31	-0.01	-0.01	108 and 33 R. P. L.
16	"	-7.0	+0.3	+0.36	+0.36	-0.02	+0.10	
18	"	-6.3	+0.3	+0.26	+0.39	-0.01	+0.33	90, 14 and 18 R. P. L.
19	R	-6.6	-0.6	+0.19	+0.39	+0.03	+0.43	101 and 10 R. P. L.
20	"	-7.0	-0.6	+0.15	+0.36	+0.00	+0.40	
21	"	-7.2	-0.6	+0.18	+0.39	+0.01	+0.38	101 and 10 R. P. L.
22	"	-7.8	-0.6	+0.07	+0.39	+0.01	+0.39	101 and 10 R. P. L.
23	"	-7.6	-0.6	+0.06	+0.38	+0.01	+0.38	
25	"	-7.8	-0.6	+0.22	+0.40	+0.02	+0.36	
26	"	-8.0	-0.6	+0.22	+0.40	+0.02	+0.35	

*Instrumental Corrections adopted in 1874.*

Date.	Obs.	Index.	Run in 65°.	Clock Rate.	Inclina- tion.	Collima- tion.	Meridian.	Determining Stars.
		"	"	s	s	s	s	
May 28	R	- 8.3	- 0.6	+ 0.15	+ 0.40	+ 0.02	+ 0.34	10 R. P. L. and $\eta$ Bootis.
29	"	- 8.8	- 0.6	+ 0.16	+ 0.37	+ 0.01	+ 0.23	101 and 10 R. P. L.
30	"	- 9.0	- 0.6	+ 0.12	+ 0.39	+ 0.01	+ 0.23	90 and 12 R. P. L.
June 3	M	- 9.4	- 0.3	+ 0.05	+ 0.49	+ 0.04	+ 0.40	
4	"	- 8.5	- 0.3	+ 0.09	+ 0.47	+ 0.05	+ 0.44	108, 12 and 18 R. P. L.
5	"	- 8.8	- 0.3	+ 0.12	+ 0.46	+ 0.02	+ 0.46	108 and 12 R. P. L.
6	"	- 9.1	- 0.3	+ 0.08	+ 0.48	+ 0.05	+ 0.45	
8	"	- 7.1	- 0.3	+ 0.11	+ 0.42	+ 0.03	+ 0.43	108 and 18 R. P. L.
9	"	- 6.9	- 0.3	+ 0.16	+ 0.39	0.00	+ 0.27	108 and 14 R. P. L.
11	"	- 7.7	- 0.3	+ 0.11	+ 0.38	- 0.01	+ 0.29	
12	"	- 6.5	- 0.3	+ 0.10	+ 0.41	0.00	+ 0.31	
17	"	- 6.5	- 0.3	+ 0.17	+ 0.35	- 0.02	+ 0.37	
18	"	- 6.4	- 0.3	+ 0.10	+ 0.39	- 0.02	+ 0.38	
19	"	- 7.4	- 0.3	+ 0.03	+ 0.42	0.00	+ 0.40	
24	"	- 8.4	- 0.3	+ 0.11	+ 0.47	+ 0.01	+ 0.46	
29	"	- 9.1	- 0.3	+ 0.09	+ 0.44	+ 0.02	+ 0.52	Polaris and $\epsilon$ Bootis.
July 1	R	- 10.7	- 0.5	+ 0.09	+ 0.39	+ 0.01	+ 0.49	
2	"	- 11.4	- 0.5	+ 0.13	+ 0.37	+ 0.02	+ 0.47	43 R. P. L. & 24 Urs. Min.
3	"	- 10.9	- 0.5	+ 0.18	+ 0.38	+ 0.02	+ 0.46	
4	"	- 10.7	- 0.5	+ 0.19	+ 0.37	+ 0.02	+ 0.46	
7	"	- 11.9	- 0.5	+ 0.18	+ 0.36	+ 0.01	+ 0.43	
9	"	- 11.0	- 0.5	+ 0.19	+ 0.37	- 0.01	+ 0.42	34 R. P. L. and $\epsilon$ Bootis.
14	"	- 7.6	- 0.5	+ 0.12	+ 0.28	0.00	+ 0.49	131 R. P. L. & $\theta$ Ophiuchi.
15	"	- 7.3	- 0.5	+ 0.16	+ 0.33	+ 0.01	+ 0.44	40 R. P. L. and $\delta$ Urs. Min.
16	"	- 4.2	- 0.5	+ 0.14	+ 0.32	+ 0.01	+ 0.45	
17	"	+ 1.1	- 0.5	+ 0.08	+ 0.32	+ 0.02	+ 0.47	
20	"	+ 0.8	- 0.5	+ 0.14	+ 0.32	+ 0.02	+ 0.51	43 R. P. L. and $\epsilon$ Urs. Min.
21	"	- 1.8	- 0.5	+ 0.07	+ 0.29	+ 0.01	+ 0.51	
22	"	- 2.4	- 0.5	+ 0.01	+ 0.33	+ 0.04	+ 0.51	
29	"	- 2.3	- 0.5	+ 0.20	+ 0.34	+ 0.05	+ 0.49	
30	"	- 1.9	- 0.5	+ 0.12	+ 0.35	+ 0.04	+ 0.49	131 R. P. L. and 51 Cephei.
31	"	- 2.4	- 0.5	0.00	+ 0.32	+ 0.03	+ 0.51	
Aug. 3	M	- 1.5	+ 0.5	+ 0.08	+ 0.46	+ 0.06	+ 0.55	$\delta$ Urs. Min. and 51 Cephei.
6	"	- 2.2	+ 0.5	+ 0.04	+ 0.32	+ 0.03	+ 0.50	
7	"	- 2.0	+ 0.5	+ 0.08	+ 0.40	+ 0.01	+ 0.49	
8	"	- 2.1	+ 0.5	+ 0.15	+ 0.41	+ 0.03	+ 0.47	
11	"	- 3.3	+ 0.5	+ 0.12	+ 0.37	+ 0.01	+ 0.42	$\lambda$ Urs. Min. & $\delta$ Ophiuchi.
12	"	- 4.2	+ 0.5	+ 0.07	+ 0.33	+ 0.01	+ 0.42	
13	"	- 4.4	+ 0.5	+ 0.18	+ 0.46	+ 0.06	+ 0.42	
14	"	- 3.8	+ 0.5	+ 0.20	+ 0.36	0.00	+ 0.42	
15	"	- 4.0	+ 0.5	+ 0.10	+ 0.40	+ 0.01	+ 0.43	
18	"	- 4.0	+ 0.5	+ 0.06	+ 0.40	+ 0.01	+ 0.43	
19	"	- 3.1	+ 0.5	+ 0.09	+ 0.41	+ 0.02	+ 0.43	
21	"	- 4.7	+ 0.5	+ 0.09	+ 0.31	- 0.02	+ 0.44	
22	"	- 4.0	+ 0.5	+ 0.04	+ 0.36	0.00	+ 0.44	
24	"	- 5.5	+ 0.5	+ 0.13	+ 0.39	+ 0.03	+ 0.44	70 R. P. L. and $\delta$ Urs. Min.
25	"	- 4.6	+ 0.5	+ 0.06	+ 0.41	+ 0.02	+ 0.44	
26	"	- 4.8	+ 0.5	- 0.02	+ 0.39	+ 0.02	+ 0.44	
27	"	- 5.0	+ 0.5	+ 0.07	+ 0.44	+ 0.02	+ 0.43	
28	"	- 7.2	+ 0.5	+ 0.13	+ 0.43	+ 0.03	+ 0.43	43 R. P. L. & $\epsilon$ Urs. Min.
29	"	- 6.1	+ 0.5	+ 0.10	+ 0.40	+ 0.01	+ 0.42	43 R. P. L. & $\lambda$ Urs. Min.
31	"	- 5.9	+ 0.5	+ 0.02	+ 0.42	+ 0.02	+ 0.41	
Sep. 2	R	- 4.7	+ 0.1	+ 0.06	+ 0.33	+ 0.01	+ 0.49	131 and 60 R. P. L.
3	"	- 5.6	+ 0.1	+ 0.11	+ 0.33	+ 0.02	+ 0.46	
4	"	- 5.0	+ 0.1	+ 0.11	+ 0.34	+ 0.02	+ 0.44	$\delta$ Urs. Min. and 60 R. P. L.

*Instrumental Corrections adopted in 1874.*

Date.	Obs.	Index.	Run in 5'.	Clock Rate.	Inclina- tion.	Collima- tion.	Meridian.	Determining Stars.
		"	"	s	s	s	s	
Sep. 5	R	- 5.1	+ 0.1	+ 0.07	+ 0.34	+ 0.02	+ 0.43	8 Urs. Min. and 60 R. P. L.
7	"	- 3.3	+ 0.1	+ 0.09	+ 0.32	+ 0.03	+ 0.49	60 R. P. L. and $\zeta$ Aquilæ.
10	"	- 2.4	+ 0.1	+ 0.10	+ 0.30	+ 0.01	+ 0.46	49 and 131 R. P. L.
12	"	- 1.4	+ 0.1	+ 0.01	+ 0.27	0.00	+ 0.39	131 and 45 R. P. L.
14	"	- 1.2	+ 0.1	+ 0.07	+ 0.27	+ 0.02	+ 0.50	131 and 69 R. P. L.
15	"	- 1.0	+ 0.1	+ 0.04	+ 0.26	+ 0.01	+ 0.39	131 and 45 R. P. L.
16	"	- 1.2	+ 0.1	+ 0.06	+ 0.27	+ 0.02	+ 0.45	131 and 49 R. P. L.
17	"	- 2.1	+ 0.1	+ 0.06	+ 0.27	+ 0.03	+ 0.43	143 and 49 R. P. L.
19	"	- 2.1	+ 0.1	+ 0.03	+ 0.26	+ 0.01	+ 0.49	
21	"	- 1.2	+ 0.1	- 0.16	+ 0.29	+ 0.03	+ 0.54	151 and 69 R. P. L.
24	"	- 2.2	+ 0.1	- 0.34	+ 0.27	+ 0.01	+ 0.44	
26	"	- 2.6	+ 0.1	- 0.21	+ 0.30	+ 0.03	+ 0.35	143 and 49 R. P. L.
28	"	- 2.3	+ 0.1	- 0.14	+ 0.27	+ 0.02	+ 0.42	
29	"	- 2.3	+ 0.1	- 0.07	+ 0.29	+ 0.03	+ 0.44	
30	"	- 2.8	+ 0.1	0.00	+ 0.28	+ 0.01	+ 0.46	
Oct. 3	M	- 4.6	0.0	- 0.09	+ 0.39	+ 0.06	+ 0.52	143 and 69 R. P. L.
5	"	- 3.7	0.0	- 0.05	+ 0.40	+ 0.03	+ 0.47	150 and 49 R. P. L.
6	"	- 4.6	0.0	- 0.09	+ 0.36	+ 0.02	+ 0.40	150 and 45 R. P. L.
7	"	- 4.9	0.0	- 0.05	+ 0.38	+ 0.02	+ 0.50	153, 98 and 49 R. P. L.
8	"	- 6.8	0.0	- 0.11	+ 0.33	- 0.01	+ 0.52	
9	"	- 5.4	0.0	- 0.12	+ 0.43	+ 0.04	+ 0.53	
10	"	- 5.4	0.0	- 0.07	+ 0.37	+ 0.02	+ 0.55	10 and 90 R. P. L.
12	"	- 3.4	0.0	- 0.14	+ 0.40	+ 0.04	+ 0.58	10, 90 and 49 R. P. L.
13	"	- 3.4	0.0	- 0.09	+ 0.42	+ 0.03	+ 0.58	150 R.P.L. & $\rho$ Capricorni.
14	"	- 5.0	0.0	- 0.10	+ 0.35	+ 0.02	+ 0.55	150 R.P.L. & $\rho$ Capricorni.
15	"	- 4.6	0.0	- 0.01	+ 0.39	+ 0.05	+ 0.49	10, 150 49, and 79 R. P. L.
16	"	- 4.1	0.0	- 0.06	+ 0.38	+ 0.03	+ 0.56	10, 151 69, and 70 R. P. L.
17	"	- 3.0	0.0	- 0.15	+ 0.39	+ 0.04	+ 0.59	151, 49 and 69 R. P. L.
19	"	- 3.1	0.0	- 0.07	+ 0.34	+ 0.01	+ 0.58	
21	"	- 1.9	0.0	+ 0.04	+ 0.35	+ 0.02	+ 0.57	
22	"	- 2.2	0.0	+ 0.06	+ 0.32	+ 0.01	+ 0.56	
27	"	+ 2.3	0.0	- 0.27	+ 0.38	+ 0.04	+ 0.54	
28	"	+ 2.2	0.0	- 0.09	+ 0.39	+ 0.01	+ 0.53	26 and 108 R. P. L.
29	"	+ 1.7	0.0	- 0.13	+ 0.34	- 0.01	+ 0.51	151, 10 and 79 R. P. L.
30	"	+ 1.6	0.0	- 0.21	+ 0.38	+ 0.01	+ 0.56	10 and 89 R. P. L.
31	"	+ 1.5	0.0	- 0.16	+ 0.38	+ 0.03	+ 0.67	151, 14, 69 and 70 R. P. L.
Nov. 2	R	+ 1.8	- 0.2	- 0.21	+ 0.28	+ 0.03	+ 0.74	14, 153 and 90 R. P. L.
3	"	- 1.3	- 0.2	- 0.24	+ 0.19	+ 0.02	+ 0.49	10 and 79 R. P. L.
4	M	- 1.4	- 0.2	- 0.33	+ 0.24	- 0.04	+ 0.45	10, 153, 69 and 70 R. P. L.
5	"	- 2.4	- 0.2	- 0.33	+ 0.29	- 0.01	+ 0.53	
7	R	- 0.6	- 0.2	- 0.35	+ 0.24	+ 0.03	+ 0.69	
9	"	- 1.3	- 0.2	- 0.18	+ 0.28	+ 0.03	+ 0.84	14 R. P. L. and $\theta$ Aquarii.
10	"	- 2.0	- 0.2	- 0.33	+ 0.22	- 0.01	+ 0.34	79 R. P. L. and $\eta$ Aquarii.
11	"	- 1.5	- 0.2	- 0.48	+ 0.22	+ 0.03	+ 0.49	
12	"	- 1.3	- 0.2	- 0.37	+ 0.24	+ 0.01	+ 0.64	14, 79, 90 and 108 R. P. L.
13	"	- 3.0	- 0.2	- 0.36	+ 0.21	0.00	+ 0.55	14, 153, 79 and 90 R. P. L.
14	"	- 2.5	- 0.2	- 0.36	+ 0.20	+ 0.02	+ 0.56	14, 79 and 90 R. P. L.
17	"	- 2.9	- 0.2	- 0.34	+ 0.21	+ 0.02	+ 0.58	14 and 98 R. P. L.
18	CR	- 3.1	- 0.2	- 0.62	+ 0.26	+ 0.07	+ 0.72	14 and 98 R. P. L.
19	M	- 2.4	- 0.2	- 0.59	+ 0.30	+ 0.05	+ 0.69	14 and 98 R. P. L.
20	R	- 2.7	- 0.2	- 0.65	+ 0.22	+ 0.04	+ 0.62	14, 87 and 90 R. P. L.
21	"	- 2.4	- 0.2	- 0.96	+ 0.23	+ 0.03	+ 0.64	14, 87 and 90 R. P. L.
25	"	- 2.1	- 0.2	- 1.05	+ 0.25	+ 0.04	+ 0.66	
27	"	- 0.5	- 0.2	- 1.04	+ 0.19	+ 0.04	+ 0.67	
28	"	- 0.7	- 0.2	- 1.05	+ 0.24	+ 0.05	+ 0.67	
30	"	+ 1.7	- 0.2	- 0.88	+ 0.28	+ 0.04	+ 0.68	

*Instrumental Corrections adopted in 1874.*

Date.	Obs.	Index.	Run in 5'.	Clock Rate	Inclina- tion.	Collima- tion.	Meridian.	Determining Stars.
		"	"	s	s	s	s	
Dec. 1	R	+ 2.8	- 0.2	- 0.93	+ 0.27	+ 0.05	+ 0.68	
2	"	+ 1.2	- 0.2	- 0.74	+ 0.24	+ 0.05	+ 0.69	14 and 99 R. P. L.
3	"	+ 0.7	- 0.2	- 0.66	+ 0.26	+ 0.05	+ 0.50	98 R. P. L. and $\gamma$ Pegasi.
4	"	+ 1.3	- 0.2	- 1.03	+ 0.21	+ 0.04	+ 0.50	18 and 90 R. P. L.
5	M	+ 1.6	- 0.9	- 1.06	+ 0.20	+ 0.03	+ 0.44	34 and 115 R. P. L.
7	"	- 0.1	- 0.9	- 0.88	+ 0.15	+ 0.01	+ 0.44	
8	"	+ 1.0	- 0.9	- 0.91	+ 0.07	+ 0.02	+ 0.44	
13	"	+ 1.5	- 0.9	- 0.83	+ 0.30	+ 0.03	+ 0.45	
15	"	+ 4.6	- 0.9	- 0.90	+ 0.38	- 0.01	+ 0.46	26, 98 and 115 R. P. L.
16	"	+ 4.7	- 0.9	- 0.80	+ 0.39	+ 0.02	+ 0.44	26 and 98 R. P. L.
17	"	+ 5.1	- 0.9	- 0.81	+ 0.35	+ 0.02	+ 0.37	26 and 115 R. P. L.
18	"	+ 4.1	- 0.9	- 0.93	+ 0.36	+ 0.03	+ 0.37	26, 98 and 115 R. P. L.
19	"	+ 3.6	- 0.9	- 0.88	+ 0.32	+ 0.05	+ 0.43	26 and 98 R. P. L.
22	R	+ 3.3	- 0.9	- 0.81	+ 0.19	+ 0.05	+ 0.46	
25	"	+ 1.7	- 0.9	- 0.90	+ 0.05	- 0.05	+ 0.49	34 and 111 R. P. L.
26	"	+ 1.7	- 0.9	- 0.87	+ 0.14	+ 0.02	+ 0.40	
28	M	+ 0.6	- 0.9	- 0.75	+ 0.19	- 0.01	+ 0.23	35 R. P. L. and $\epsilon$ Urs. Min.



*Instrumental Corrections adopted in 1875.*

Date.	Obs.	Index.	Run in 5'.	Clock Rate.	Inclina- tion.	Collima- tion.	Meridian.	Determining Stars.
		"	"	s	s	s	s	
Jan. 2	R	- 2.9	- 0.9	- 0.75	+ 0.20	+ 0.04	+ 0.44	34 and 115 R. P. L.
5	"	- 2.7	- 0.9	- 0.80	+ 0.18	+ 0.02	+ 0.36	33 and 115 R. P. L.
6	"	- 4.4	- 0.9	- 0.79	+ 0.20	+ 0.04	+ 0.39	34 and 115 R. P. L.
8	"	- 2.7	- 0.9	- 0.75	+ 0.19	+ 0.04	+ 0.38	26 and 114 R. P. L.
11	"	- 4.9	- 0.9	- 0.75	+ 0.16	+ 0.03	+ 0.46	34 and 115 R. P. L.
12	"	- 3.9	- 0.9	- 0.69	+ 0.18	+ 0.04	+ 0.41	
13	"	- 4.3	- 0.9	- 0.71	+ 0.16	+ 0.02	+ 0.37	35 and 114 R. P. L.
14	"	- 4.5	- 0.9	- 0.75	+ 0.17	+ 0.03	+ 0.39	
16	"	- 6.6	- 0.9	- 0.75	+ 0.19	+ 0.04	+ 0.44	33 and 114 R. P. L.
18	"	- 8.7	- 0.9	- 0.73	+ 0.21	+ 0.04	+ 0.31	35 and 114 R. P. L.
20	"	- 7.3	- 0.9	- 0.64	+ 0.21	+ 0.03	+ 0.33	34 and 111 R. P. L.
21	"	- 8.6	- 0.9	- 0.56	+ 0.21	+ 0.04	+ 0.32	
22	"	- 8.5	- 0.9	- 0.56	+ 0.21	+ 0.03	+ 0.30	
23	"	- 9.6	- 0.9	- 0.56	+ 0.20	+ 0.02	+ 0.29	34 R. P. L. and $\alpha^1$ Eridani.
26	"	- 9.6	- 0.9	- 0.59	+ 0.22	+ 0.01	+ 0.26	
27	"	- 10.6	- 0.9	- 0.63	+ 0.22	+ 0.02	+ 0.25	
28	"	- 10.1	- 0.9	- 0.64	+ 0.24	+ 0.04	+ 0.24	35 and 115 R. P. L.
29	"	- 9.5	- 0.9	- 0.58	+ 0.21	+ 0.04	+ 0.18	
30	"	- 9.7	- 0.9	- 0.48	+ 0.24	+ 0.04	+ 0.12	42 R. P. L. and $\epsilon$ Urs. Min.
Feb. 1	M	- 10.8	0.0	- 0.52	+ 0.35	+ 0.03	+ 0.20	
2	"	- 11.4	0.0	- 0.62	+ 0.31	+ 0.04	+ 0.25	51 Cephei and 131 R. P. L.
3	"	- 11.7	0.0	- 0.59	+ 0.33	+ 0.08	+ 0.26	$\beta$ Tauri and $\delta$ Urs. Min.
4	"	- 11.7	0.0	- 0.53	+ 0.28	+ 0.06	+ 0.24	
5	"	- 11.1	0.0	- 0.51	+ 0.27	+ 0.03	+ 0.22	$\beta$ Tauri and $\delta$ Urs. Min.
6	"	- 11.8	0.0	- 0.47	+ 0.26	+ 0.04	+ 0.22	
8	"	- 11.0	0.0	- 0.53	+ 0.23	+ 0.02	+ 0.22	$\beta$ Tauri and $\delta$ Urs. Min.
9	"	- 10.6	0.0	- 0.49	+ 0.26	+ 0.03	+ 0.24	
10	"	- 11.9	0.0	- 0.49	+ 0.22	+ 0.01	+ 0.25	
11	"	- 12.0	0.0	- 0.48	+ 0.21	+ 0.01	+ 0.27	51 Cephei & 24 Urs. Min.
12	"	- 13.0	0.0	- 0.48	+ 0.22	0.00	+ 0.24	
13	"	- 12.9	0.0	- 0.36	+ 0.18	+ 0.01	+ 0.22	51 Cephei & 24 Urs. Min.
15	"	- 13.1	0.0	- 0.49	+ 0.20	- 0.01	+ 0.20	
16	"	- 12.8	0.0	- 0.46	+ 0.25	+ 0.01	+ 0.18	
17	"	- 12.8	0.0	- 0.42	+ 0.26	+ 0.01	+ 0.17	60 and 150 R. P. L.
18	"	- 11.9	0.0	- 0.40	+ 0.29	+ 0.02	+ 0.13	
19	"	- 12.6	0.0	- 0.44	+ 0.29	0.00	+ 0.09	72 and 150 R. P. L.
20	"	- 12.0	0.0	- 0.50	+ 0.30	+ 0.01	+ 0.19	90 and 158 R. P. L.
22	"	- 12.7	0.0	- 0.38	+ 0.31	+ 0.03	+ 0.22	
23	"	- 13.4	0.0	- 0.45	+ 0.30	+ 0.03	+ 0.23	90 and 158 R. P. L.
24	"	- 13.3	0.0	- 0.48	+ 0.29	+ 0.04	+ 0.22	90 and 153 R. P. L.
25	"	- 13.2	0.0	- 0.42	+ 0.30	+ 0.04	+ 0.22	90 and 153 R. P. L.
26	"	- 13.2	0.0	- 0.35	+ 0.29	+ 0.04	+ 0.21	90 and 153 R. P. L.
27	"	- 12.8	0.0	- 0.29	+ 0.30	+ 0.04	+ 0.28	Castor and Polaris.
Mar. 1	R	- 11.9	- 0.2	- 0.42	+ 0.22	+ 0.03	+ 0.31	
2	"	- 11.9	- 0.2	- 0.48	+ 0.22	+ 0.04	+ 0.32	
3	"	- 12.7	- 0.2	- 0.52	+ 0.20	+ 0.03	+ 0.34	60 and 143 R. P. L.
4	"	- 13.2	- 0.2	- 0.54	+ 0.19	+ 0.02	+ 0.30	
5	"	- 13.4	- 0.2	- 0.47	+ 0.24	+ 0.08	+ 0.26	
6	"	- 12.8	- 0.2	- 0.44	+ 0.22	+ 0.02	+ 0.23	49 and 131 R. P. L.
8	"	- 12.7	- 0.2	- 0.58	+ 0.24	+ 0.01	+ 0.22	
9	"	- 12.8	- 0.2	- 0.59	+ 0.26	+ 0.01	+ 0.21	
10	"	- 12.4	- 0.2	- 0.53	+ 0.30	+ 0.01	+ 0.20	49 and 131 R. P. L.
11	"	- 13.4	- 0.2	- 0.55	+ 0.24	+ 0.01	+ 0.17	
12	"	- 13.2	- 0.2	- 0.58	+ 0.30	+ 0.03	+ 0.14	
13	"	- 12.5	- 0.2	- 0.52	+ 0.30	+ 0.01	+ 0.11	70 and 150 R. P. L.
15	"	- 13.2	- 0.2	- 0.44	+ 0.29	+ 0.01	+ 0.12	
16	"	- 12.6	- 0.2	- 0.49	+ 0.27	0.00	+ 0.13	

*Instrumental Corrections adopted in 1875.*

Date.	Obs.	Index.	Run in 5'.	Clock Rate.	Inclina- tion.	Collima- tion.	Meridian.	Determining Stars.
		"	"	s	s	s	s	
Mar. 17	R	- 12.6	- 0.2	- 0.52	+ 0.27	- 0.01	+ 0.14	69 and 151 R. P. L.
18	"	- 12.3	- 0.2	- 0.42	+ 0.26	0.00	+ 0.14	
19	"	- 12.3	- 0.2	- 0.41	+ 0.26	+ 0.01	+ 0.14	
20	"	- 11.8	- 0.2	- 0.50	+ 0.25	0.00	+ 0.14	70 and 18 R. P. L.
22	"	- 12.5	- 0.2	- 0.52	+ 0.27	+ 0.02	- 0.10	Leonis and 14 R. P. L.
23	"	- 12.6	- 0.2	- 0.53	+ 0.30	+ 0.03	+ 0.04	101 and 14 R. P. L.
24	"	- 13.3	- 0.2	- 0.59	+ 0.30	+ 0.05	+ 0.06	101 and 14 R. P. L.
25	"	- 12.9	- 0.2	- 0.55	+ 0.28	+ 0.03	+ 0.05	
26	"	- 13.0	- 0.2	- 0.58	+ 0.29	+ 0.03	+ 0.04	
27	M	- 11.9	- 0.4	- 0.57	+ 0.45	+ 0.03	+ 0.03	
29	"	- 12.2	- 0.4	- 0.40	+ 0.41	+ 0.01	0.00	
31	R	- 12.6	- 0.2	- 0.63	+ 0.31	+ 0.01	- 0.03	
Apl. 1	M	- 11.7	- 0.4	- 0.56	+ 0.46	+ 0.04	- 0.04	
2	"	- 11.1	- 0.4	- 0.34	+ 0.42	+ 0.02	- 0.05	
3	"	- 11.0	- 0.4	- 0.39	+ 0.40	+ 0.01	- 0.06	99 and 14 R. P. L.
5	"	- 10.5	- 0.4	- 0.51	+ 0.44	+ 0.03	+ 0.17	
6	"	- 9.7	- 0.4	- 0.43	+ 0.43	+ 0.03	+ 0.28	108 and 26 R. P. L.
7	"	- 11.0	- 0.4	- 0.40	+ 0.40	+ 0.01	+ 0.05	92 R. P. L. and $\psi$ Leonis.
8	"	- 11.1	- 0.4	- 0.50	+ 0.40	+ 0.04	+ 0.23	93 R. P. L. and Polaris.
9	"	- 11.5	- 0.4	- 0.41	+ 0.41	+ 0.03	+ 0.12	92 R. P. L. and Polaris.
10	"	- 11.5	- 0.4	- 0.33	+ 0.40	+ 0.02	+ 0.15	108 R. P. L. and $\delta$ Crateris.
12	"	- 12.0	- 0.4	- 0.66	+ 0.38	0.00	+ 0.14	108 R. P. L. and Polaris.
13	"	- 11.3	- 0.4	- 0.71	+ 0.40	+ 0.01	+ 0.25	114 and 35 R. P. L.
14	"	- 10.9	- 0.4	- 0.60	+ 0.40	+ 0.01	+ 0.18	114 R. P. L. and $\delta$ Crateris.
15	"	- 11.0	- 0.4	- 0.59	+ 0.38	0.00	+ 0.18	114, 116, and 26 R. P. L.
16	"	- 10.9	- 0.4	- 0.59	+ 0.40	0.00	+ 0.10	116, 26, and 34 R. P. L.
17	"	- 10.3	- 0.4	- 0.50	+ 0.46	+ 0.05	+ 0.20	2293 Redhill; 114, 116 and 26 R. P. L.
19	"	- 11.2	- 0.4	- 0.56	+ 0.41	+ 0.02	- 0.03	2293 Redhill and 33 R.P.L.
20	"	- 10.8	- 0.4	- 0.57	+ 0.43	0.00	+ 0.08	
21	"	- 11.7	- 0.4	- 0.56	+ 0.44	+ 0.04	+ 0.18	26, 34 and 111 R. P. L. and 2293 Redhill.
22	"	- 12.3	- 0.4	- 0.56	+ 0.43	+ 0.01	+ 0.13	114 R. P. L. and $\beta$ Corvi.
23	"	- 10.8	- 0.4	- 0.46	+ 0.46	+ 0.03	+ 0.10	92, 114 and 34 R. P. L.
24	"	- 11.6	- 0.4	- 0.38	+ 0.45	- 0.01	+ 0.08	114 and 34 R. P. L.
26	"	- 12.1	- 0.4	- 0.57	+ 0.44	+ 0.01	+ 0.08	93 and 33 R. P. L.
27	"	- 11.8	- 0.4	- 0.62	+ 0.52	+ 0.04	+ 0.19	115 and 34 R. P. L.
28	"	- 12.0	- 0.4	- 0.55	+ 0.52	+ 0.03	+ 0.22	
29	"	- 11.7	- 0.4	- 0.45	+ 0.54	+ 0.06	+ 0.24	93 and 34 R. P. L.
30	"	- 11.8	- 0.4	- 0.37	+ 0.48	+ 0.04	+ 0.18	33 and 93 R. P. L. and 2293 Redhill.
May 1	R	- 10.6	0.0	- 0.38	+ 0.40	+ 0.02	+ 0.28	93 R. P. L. and $\gamma$ Bootis.
3	"	- 12.5	0.0	- 0.72	+ 0.40	+ 0.04	+ 0.04	
4	"	- 12.0	0.0	+ 0.51	+ 0.44	+ 0.05	- 0.08	2293 Redhill and 33 R.P.L.
5	"	- 11.2	0.0	+ 0.82	+ 0.41	+ 0.02	+ 0.05	26, 33 and 92 R. P. L. and 2293 Redhill.
6	"	- 11.6	0.0	+ 0.87	+ 0.41	+ 0.03	+ 0.19	93, 114, 26 and 33 R. P. L.
7	"	- 11.6	0.0	+ 0.86	+ 0.44	+ 0.03	+ 0.20	93, 111, 114 and 26 R. P. L.
8	"	- 11.0	0.0	+ 0.85	+ 0.43	+ 0.04	+ 0.21	93, 111, 26 and 34 R. P. L.
10	"	- 10.5	0.0	+ 0.95	+ 0.47	+ 0.02	+ 0.26	93, 111 and 26 R. P. L.
11	"	- 11.1	0.0	+ 1.07	+ 0.44	+ 0.01	+ 0.23	93 R. P. L. and $\zeta$ Virginis
12	"	- 10.5	0.0	+ 1.02	+ 0.45	+ 0.02	+ 0.17	93 and 34 R. P. L. and 2293 Redhill.
13	"	- 9.7	0.0	+ 1.06	+ 0.46	+ 0.03	+ 0.20	93 and 34 R. P. L. and 2293 Redhill.
14	"	- 11.0	0.0	+ 1.16	+ 0.41	+ 0.03	+ 0.23	
15	"	- 10.4	0.0	+ 1.15	+ 0.41	+ 0.04	+ 0.25	93, 34 and 40 R. P. L. and 2293 Redhill.
17	"	- 11.3	0.0	+ 1.20	+ 0.43	+ 0.02	+ 0.24	

May 3.—Stopped the clock before observing to lower the pendulum cylinder two divisions of the screw and placed the 30 grain weight upon the rate shelf.

May 4. 12h. 11m.—Changed the 30 grain weight on the weight shelf for the 20 grain weight.

*Instrumental Corrections adopted in 1875.*

Date.	Obs.	Index.	Run in 5'.	Clock Rate.	Inclina- tion.	Collima- tion.	Meridian.	Determining Stars.
		"	"	s	s	s	s	
May 18	R	- 10.4	0.0	+ 1.15	+ 0.42	+ 0.02	+ 0.23	114 and 40 R. P. L.
19	"	- 10.6	0.0	+ 1.03	+ 0.44	+ 0.02	+ 0.23	115 and 40 R. P. L.
20	"	- 10.8	0.0	+ 2.04	+ 0.43	+ 0.04	+ 0.25	115 and 40 R. P. L.
21	"	- 10.9	0.0	+ 0.16	+ 0.41	+ 0.02	+ 0.22	115 and 40 R. P. L.
22	"	- 10.7	0.0	+ 0.19	+ 0.41	+ 0.02	+ 0.22	115 and 43 R. P. L.
24	"	- 10.5	0.0	+ 0.22	+ 0.44	+ 0.01	+ 0.23	115 and 43 R. P. L.
25	"	- 9.5	0.0	+ 0.22	+ 0.43	+ 0.01	+ 0.26	ζ Herculis and 43 R. P. L.
26	"	- 10.2	0.0	+ 0.23	+ 0.46	+ 0.01	+ 0.28	115 and 42 R. P. L.
28	"	- 9.1	0.0	+ 0.18	+ 0.42	0.00	+ 0.26	115 and 42 R. P. L.
31	"	- 10.2	0.0	+ 0.19	+ 0.47	+ 0.03	+ 0.25	
June 1	M	- 10.0	- 1.0	+ 0.13	+ 0.52	+ 0.03	+ 0.24	
2	"	- 9.5	- 1.0	+ 0.23	+ 0.57	+ 0.04	+ 0.23	
3	"	- 10.3	- 1.0	+ 0.32	+ 0.51	- 0.01	+ 0.23	δ Urs. Min. and γ Virginis.
4	"	- 11.8	- 1.0	+ 0.14	+ 0.50	+ 0.03	+ 0.29	δ Urs. Min. and 51 Cephei.
5	"	- 10.9	- 1.0	+ 0.14	+ 0.53	+ 0.03	+ 0.29	
7	"	- 10.8	- 1.0	+ 0.33	+ 0.51	+ 0.02	+ 0.27	115 R. P. L. and α Libræ.
8	"	- 11.2	- 1.0	+ 0.23	+ 0.50	+ 0.03	+ 0.32	115 and 43 R. P. L.
9	"	- 11.0	- 1.0	+ 0.18	+ 0.50	+ 0.01	+ 0.30	115 and 32 R. P. L.
10	"	- 11.5	- 1.0	+ 0.26	+ 0.50	0.00	+ 0.29	
11	"	- 11.2	- 1.0	+ 0.32	+ 0.52	+ 0.01	+ 0.28	
12	"	- 11.3	- 1.0	+ 0.32	+ 0.48	0.00	+ 0.28	
18	"	- 12.3	- 1.0	+ 0.19	+ 0.49	+ 0.01	+ 0.23	
22	"	- 11.4	- 1.0	+ 0.19	+ 0.55	+ 0.02	+ 0.20	δ Urs. Min. and 51 Cephei.
24	"	- 12.0	- 1.0	+ 0.31	+ 0.58	+ 0.03	+ 0.22	δ Urs. Min. and Antares.
25	"	- 11.2	- 1.0	+ 0.23	+ 0.53	+ 0.02	+ 0.26	δ Urs. Min. and 51 Cephei.
26	"	- 11.3	- 1.0	+ 0.12	+ 0.58	+ 0.05	+ 0.30	δ Urs. Min. and 51 Cephei.
29	"	- 12.4	- 1.0	+ 0.19	+ 0.48	- 0.01	+ 0.20	δ Urs. Min. and 51 Cephei.
30	"	- 12.1	- 1.0	+ 0.29	+ 0.55	+ 0.04	+ 0.28	δ and 24 Ursæ Minoris, 51 Cephei, and 45 R. P. L.
July 1	R	- 11.4	0.0	+ 0.26	+ 0.48	+ 0.03	+ 0.20	
2	"	- 11.7	0.0	+ 0.15	+ 0.49	+ 0.03	+ 0.29	131 and 45 R. P. L.
5	"	- 11.9	0.0	+ 0.27	+ 0.51	+ 0.03	+ 0.28	
7	"	- 11.6	0.0	+ 0.30	+ 0.47	+ 0.01	+ 0.28	
10	"	- 12.1	0.0	+ 0.25	+ 0.41	+ 0.01	+ 0.27	
12	"	- 11.4	0.0	+ 0.29	+ 0.42	+ 0.04	+ 0.27	
14	"	- 12.3	0.0	+ 0.34	+ 0.42	+ 0.04	+ 0.26	
16	"	- 11.5	0.0	+ 0.32	+ 0.44	+ 0.02	+ 0.26	131 and 35 R. P. L.
20	"	- 11.7	0.0	+ 0.34	+ 0.44	+ 0.02	+ 0.28	
22	"	- 11.2	0.0	+ 0.35	+ 0.43	+ 0.02	+ 0.29	
23	"	- 12.2	0.0	+ 0.36	+ 0.47	+ 0.02	+ 0.30	
28	"	- 11.3	0.0	+ 0.30	+ 0.48	+ 0.02	+ 0.32	
29	"	- 11.4	0.0	+ 0.23	+ 0.46	+ 0.02	+ 0.33	
30	"	- 11.9	0.0	+ 0.26	+ 0.44	+ 0.02	+ 0.33	
Aug. 2	M	- 10.5	+ 0.5	+ 0.31	+ 0.50	+ 0.04	+ 0.34	
3	"	- 11.8	+ 0.5	+ 0.31	+ 0.52	+ 0.05	+ 0.36	
5	"	- 10.9	+ 0.5	+ 0.40	+ 0.50	+ 0.07	+ 0.37	24 Urs. Min. and γ Aquilæ.
7	"	- 9.5	+ 0.5	+ 0.37	+ 0.46	+ 0.05	+ 0.38	
9	"	- 10.3	+ 0.5	+ 0.38	+ 0.44	+ 0.02	+ 0.39	24 Urs. Min. & 51 Cephei.
10	"	- 10.6	+ 0.5	+ 0.35	+ 0.49	+ 0.06	+ 0.64	24 Cephei and Altair.
16	"	- 7.4	+ 0.5	- 0.27	+ 0.43	+ 0.01	+ 0.37	
17	"	- 6.4	+ 0.5	- 0.17	+ 0.40	0.00	+ 0.32	24 Urs. Min. & 51 Cephei.
18	"	- 7.1	+ 0.5	+ 0.02	+ 0.43	+ 0.03	+ 0.37	151, 45 and 70 R. P. L. and 51 Cephei.
20	"	- 6.7	+ 0.5	+ 0.10	+ 0.39	+ 0.02	+ 0.34	24 Urs. Min., 51 Cephei and 45 R. P. L.
21	"	- 6.4	+ 0.5	+ 0.09	+ 0.42	+ 0.03	+ 0.34	24 Urs. Min. & 51 Cephei.
23	"	- 7.6	+ 0.5	+ 0.15	+ 0.43	+ 0.04	+ 0.35	24 Urs. Min., 42 and 45 R. P. L. and 51 Cephei.

May 20. 11h. 0m.—Changed the 20 grain weight on the weight shelf for the 10 grain weight by mistake: increasing the rate by 1.00 instead of diminishing it.

May 21. 7h. 3m.—Changed the 10 grain weight on the rate shelf for the 30 grain weight.

August 10th to 16th.—Heavy rain.

*Instrumental Corrections adopted in 1875.*

Date.	Obs.	Index.	Run in 5'.	Clock Rate.	Inclina- tion.	Collima- tion.	Meridian.	Determining Stars.
		"	"	s	s	s	s	
Aug. 24	M	- 7.8	+ 0.5	+ 0.04	+ 0.45	+ 0.05	+ 0.33	24 Urs. Min. & 51 Cephei.
25	"	- 7.7	+ 0.5	+ 0.05	+ 0.44	+ 0.06	+ 0.35	
26	"	- 8.0	+ 0.5	+ 0.22	+ 0.42	+ 0.06	+ 0.36	
27	"	- 7.3	+ 0.5	+ 0.19	+ 0.42	+ 0.04	+ 0.38	
30	"	- 6.7	+ 0.5	+ 0.17	+ 0.40	+ 0.04	+ 0.37	24 Urs. Min., 24 Cephei, 42 and 45 R. P. L.
Sep. 2	R	- 6.9	0.0	+ 0.19	+ 0.37	+ 0.04	+ 0.45	
6	"	- 7.7	0.0	+ 0.10	+ 0.33	+ 0.03	+ 0.48	151 and 70 R. P. L.
7	"	- 7.6	0.0	+ 0.12	+ 0.35	+ 0.05	+ 0.46	150 and 72 R. P. L.
9	"	- 6.2	0.0	+ 0.18	+ 0.37	+ 0.02	+ 0.41	$\gamma$ Aquilæ and 70 R. P. L.
11	"	- 8.5	0.0	+ 0.19	+ 0.39	+ 0.03	+ 0.50	150 and 72 R. P. L.
14	"	- 8.3	0.0	+ 0.15	+ 0.38	+ 0.04	+ 0.52	
20	"	- 6.9	0.0	+ 0.35	+ 0.41	+ 0.05	+ 0.54	
21	"	- 6.2	0.0	+ 0.27	+ 0.38	+ 0.07	+ 0.55	150 and 87 R. P. L.
22	"	- 5.6	0.0	+ 0.20	+ 0.43	+ 0.05	+ 0.55	24 Urs. Minoris, 24 Cephei and 87 R. P. L.
23	"	- 6.5	0.0	+ 0.18	+ 0.33	+ 0.05	+ 0.51	
24	"	- 6.6	0.0	+ 0.25	+ 0.31	+ 0.03	+ 0.48	
25	"	- 6.8	0.0	+ 0.32	+ 0.32	+ 0.03	+ 0.44	158 and 87 R. P. L.
27	"	- 5.3	0.0	+ 0.31	+ 0.29	+ 0.03	+ 0.51	
28	"	- 6.1	0.0	+ 0.33	+ 0.35	+ 0.06	+ 0.55	24 Cephei and 87 R. P. L.
29	"	- 5.2	0.0	+ 0.28	+ 0.35	+ 0.04	+ 0.53	
Oct. 1	M	- 6.4	+ 0.2	+ 0.32	+ 0.37	+ 0.05	+ 0.49	18 R. P. L. and $\theta$ Aquarii.
2	"	- 6.4	+ 0.2	+ 0.30	+ 0.35	+ 0.06	+ 0.47	
4	"	- 6.8	+ 0.2	+ 0.14	+ 0.37	+ 0.05	+ 0.44	
5	"	- 6.9	+ 0.2	+ 0.15	+ 0.38	+ 0.05	+ 0.43	
6	"	- 7.0	+ 0.2	+ 0.33	+ 0.43	+ 0.09	+ 0.41	
7	"	- 6.2	+ 0.2	+ 0.44	+ 0.35	+ 0.01	+ 0.40	18, 60 and 87 R. P. L.
11	"	- 6.0	+ 0.2	+ 0.08	+ 0.33	+ 0.03	+ 0.45	18 and 99 R. P. L.
12	"	- 5.0	+ 0.2	+ 0.05	+ 0.33	+ 0.07	+ 0.45	
13	"	- 4.5	+ 0.2	+ 0.12	+ 0.32	+ 0.06	+ 0.45	12 and 87 R. P. L.
14	"	- 5.4	+ 0.2	+ 0.20	+ 0.28	+ 0.06	+ 0.45	
16	"	- 5.2	+ 0.2	+ 0.20	+ 0.24	+ 0.05	+ 0.46	
19	"	- 4.8	+ 0.2	+ 0.21	+ 0.19	+ 0.01	+ 0.48	
22	"	- 3.4	+ 0.2	+ 0.13	+ 0.33	+ 0.08	+ 0.49	12, 18 and 87 R. P. L.
23	"	- 2.1	+ 0.2	+ 0.06	+ 0.36	+ 0.06	+ 0.47	12, 18 and 90 R. P. L.
25	"	- 3.3	+ 0.2	+ 0.08	+ 0.39	+ 0.02	+ 0.41	12, 18 and 89 R. P. L.
26	"	- 3.6	+ 0.2	+ 0.07	+ 0.40	+ 0.04	+ 0.45	18 and 92 R. P. L.
27	"	- 3.4	+ 0.2	+ 0.01	+ 0.40	+ 0.02	+ 0.44	18 and 92 R. P. L.
28	"	- 4.3	+ 0.2	+ 0.05	+ 0.45	+ 0.02	+ 0.42	158, 92 and 93 R. P. L.
29	"	- 4.0	+ 0.2	+ 0.08	+ 0.39	+ 0.02	+ 0.38	158, 92, 93 and 103 R. P. L.
30	"	- 4.8	+ 0.2	+ 0.07	+ 0.41	+ 0.02	+ 0.43	158, 92 and 103 R. P. L.
Nov. 1	R	- 3.9	0.0	- 0.15	+ 0.28	+ 0.01	+ 0.34	12, 93 and 103 R. P. L.
2	"	- 5.8	0.0	- 0.10	+ 0.33	+ 0.02	+ 0.50	14, 93 and 103 R. P. L.
3	"	- 5.6	0.0	- 0.05	+ 0.32	+ 0.03	+ 0.44	10 and 103 R. P. L.
4	"	- 5.4	0.0	- 0.03	+ 0.31	+ 0.04	+ 0.47	12 and 90 R. P. L.
5	"	- 6.4	0.0	- 0.03	+ 0.28	+ 0.03	+ 0.46	
6	"	- 5.4	0.0	- 0.04	+ 0.31	+ 0.04	+ 0.46	
8	"	- 5.5	0.0	+ 0.14	+ 0.33	+ 0.02	+ 0.45	
9	"	- 5.1	0.0	+ 0.13	+ 0.35	+ 0.03	+ 0.45	
11	"	- 5.8	0.0	+ 0.26	+ 0.36	+ 0.04	+ 0.44	
12	"	- 6.2	0.0	+ 0.28	+ 0.37	+ 0.04	+ 0.43	
15	"	- 2.9	0.0	+ 0.14	+ 0.32	+ 0.03	+ 0.42	
16	"	- 1.4	0.0	+ 0.09	+ 0.30	+ 0.03	+ 0.42	18 and 98 R. P. L.
17	"	- 2.4	0.0	+ 0.07	+ 0.33	+ 0.04	+ 0.53	
19	"	- 1.8	0.0	+ 0.19	+ 0.32	+ 0.04	+ 0.59	14 and 98 R. P. L.
20	"	- 3.0	0.0	+ 0.19	+ 0.35	+ 0.05	+ 0.56	
23	"	- 0.5	0.0	+ 0.10	+ 0.33	+ 0.05	+ 0.46	

*Instrumental Corrections adopted in 1875.*

Date.	Obs.	Index.	Run in 5'	Clock Rate.	Inclina- tion.	Collima- tion.	Meridian.	Determining tars.
		"	"	s	s	s	s	
Nov. 25	R	- 1.2	0.0	+ 0.13	+ 0.32	+ 0.05	+ 0.40	12 and 93 R. P. L.
27	"	- 1.0	0.0	+ 0.16	+ 0.32	+ 0.03	+ 0.49	34 and 111 R. P. L.
29	"	- 2.1	0.0	+ 0.12	+ 0.26	+ 0.04	+ 0.58	
30	"	- 3.3	0.0	+ 0.23	+ 0.28	+ 0.05	+ 0.63	14 and 98 R. P. L.
Dec. 1	M	- 2.9	- 0.6	+ 0.23	+ 0.30	+ 0.01	+ 0.52	
2	"	- 3.7	- 0.6	+ 0.09	+ 0.29	+ 0.04	+ 0.40	
3	"	...	...	...	+ 0.31	+ 0.04	+ 0.29	Polaris and $\nu$ Piscium.
8	"	- 2.9	- 0.6	+ 0.18	+ 0.33	+ 0.07	+ 0.46	12 and 101 R. P. L.
10	"	- 3.7	- 0.6	+ 0.15	+ 0.30	+ 0.02	+ 0.37	Polaris and $\theta^1$ Ceti.
11	"	- 3.6	- 0.6	+ 0.12	+ 0.35	+ 0.05	+ 0.41	
14	"	- 4.4	- 0.6	+ 0.05	+ 0.28	+ 0.04	+ 0.54	33 R. P. L. and $\theta^1$ Ceti.
18	"	- 5.0	- 0.6	- 0.12	+ 0.36	+ 0.09	+ 0.49	26 and 108 R. P. L.
20	"	- 5.6	- 0.6	+ 0.01	+ 0.37	+ 0.10	+ 0.50	33 and 114 R. P. L.
21	"	- 5.1	- 0.6	+ 0.07	+ 0.30	+ 0.04	+ 0.36	26 and 111 R. P. L.
22	"	- 4.6	- 0.6	+ 0.06	+ 0.31	+ 0.04	+ 0.36	26 and 111 R. P. L.
25	"	- 5.9	- 0.6	+ 0.05	+ 0.26	+ 0.04	+ 0.37	33 and 114 R. P. L.

*Instrumental Corrections adopted in 1876.*

Date.	Obs.	Index.	Run in 5'.	Clock Rate.	Inclina- tion.	Colli- mation.	Meridian.	Determining stars.
Jan. 4	R	- 7.8	0.0	+ 0.21	+ 0.31	+ 0.08	+ 0.49	34 and 111 R. P. L.
5	"	- 7.8	0.0	+ 0.18	+ 0.32	+ 0.05	+ 0.49	
6	"	- 8.3	0.0	+ 0.20	+ 0.33	+ 0.05	+ 0.49	
7	"	- 8.7	0.0	+ 0.18	+ 0.29	+ 0.03	+ 0.49	
8	"	- 7.4	0.0	+ 0.10	+ 0.33	+ 0.06	+ 0.49	33 and 114 R. P. L.
10	"	- 8.3	0.0	- 0.01	+ 0.31	+ 0.04	+ 0.45	
11	"	- 8.8	0.0	+ 0.10	+ 0.31	+ 0.05	+ 0.44	
12	"	- 8.7	0.0	+ 0.20	+ 0.29	+ 0.05	+ 0.42	
13	"	- 9.3	0.0	+ 0.14	+ 0.30	+ 0.04	+ 0.40	35 and 111 R. P. L.
14	"	- 9.3	0.0	+ 0.13	+ 0.29	+ 0.04	+ 0.48	
15	"	- 9.1	0.0	+ 0.11	+ 0.30	+ 0.05	+ 0.57	34 and 115 R. P. L.
17	"	- 9.5	0.0	+ 0.17	+ 0.26	+ 0.05	+ 0.53	
18	"	- 9.3	0.0	+ 0.06	+ 0.23	+ 0.04	+ 0.51	
19	"	- 9.8	0.0	- 0.02	+ 0.21	+ 0.03	+ 0.50	
20	"	- 10.4	0.0	+ 0.04	+ 0.20	+ 0.03	+ 0.48	
22	"	- 10.3	0.0	+ 0.10	+ 0.22	+ 0.03	+ 0.44	40 and 116 R. P. L.
28	"	- 11.9	0.0	+ 0.12	+ 0.17	+ 0.02	+ 0.40	35 and 115 R. P. L.
31	"	- 11.7	0.0	+ 0.26	+ 0.19	+ 0.02	+ 0.41	40 and 116 R. P. L.
Feb. 2	M	- 12.8	- 0.7	+ 0.31	+ 0.19	+ 0.01	+ 0.36	40 R. P. L. and $\delta$ Urs. Min.
7	"	- 13.7	- 0.7	+ 0.24	+ 0.14	- 0.04	+ 0.36	40 R. P. L. and $\epsilon$ Urs. Min.
14	"	- 14.2	- 0.7	+ 0.24	+ 0.20	+ 0.04	+ 0.43	40 R. P. L. and $\delta$ Urs. Min.
21	"	- 14.6	- 0.7	+ 0.16	+ 0.18	0.00	+ 0.31	51 Cephei and $\delta$ Urs. Min.
28	"	- 13.5	- 0.7	+ 0.12	+ 0.27	0.00	+ 0.27	51 Cephei and 131 R. P. L.
Mar. 6	R	- 12.0	0.0	+ 0.13	+ 0.33	+ 0.03	+ 0.33	49 and 131 R. P. L.
13	"	- 12.2	0.0	+ 0.16	+ 0.35	+ 0.04	+ 0.37	60 and 143 R. P. L.
20	"	- 12.7	0.0	+ 0.14	+ 0.39	+ 0.05	+ 0.38	70 and 143 R. P. L.
27	"	- 11.5	0.0	- 0.04	+ 0.39	+ 0.02	+ 0.29	60 and 150 R. P. L.
28	"	- 11.4	0.0	+ 0.07	+ 0.43	+ 0.04	+ 0.32	72 and 150 R. P. L.
29	"	- 11.3	0.0	+ 0.18	+ 0.38	+ 0.02	+ 0.26	72 and 151 R. P. L.
30	"	- 11.9	0.0	+ 0.14	+ 0.39	+ 0.01	+ 0.22	69 and 151 R. P. L.
31	"	- 11.5	0.0	+ 0.11	+ 0.42	+ 0.01	+ 0.26	
Apl. 3	M	- 11.8	0.0	+ 0.09	+ 0.55	+ 0.07	+ 0.38	72 and 150 R. P. L.
10	"	- 11.0	0.0	+ 0.07	+ 0.62	+ 0.11	+ 0.35	89 R. P. L. and $\eta$ Virginis.
17	R	- 10.1	0.0	+ 0.01	+ 0.54	+ 0.07	+ 0.39	72 and 150 R. P. L.
19	"	- 10.8	0.0	+ 0.05	+ 0.58	+ 0.05	+ 0.35	70 and 151 R. P. L.
20	"	- 10.6	0.0	+ 0.09	+ 0.58	+ 0.03	+ 0.33	
21	"	- 10.2	0.0	+ 0.12	+ 0.53	+ 0.05	+ 0.30	89 and 158 R. P. L.
22	"	- 10.1	0.0	+ 0.11	+ 0.52	+ 0.03	+ 0.30	
24	"	- 10.4	0.0	+ 0.06	+ 0.54	+ 0.06	+ 0.32	98 and 158 R. P. L.
27	"	- 10.4	0.0	+ 0.16	+ 0.54	+ 0.05	+ 0.19	103 and 12 R. P. L.
28	"	- 10.5	0.0	+ 0.14	+ 0.54	+ 0.05	+ 0.09	99 and 14 R. P. L.
29	"	- 10.5	0.0	+ 0.08	+ 0.50	+ 0.06	+ 0.17	108 and 33 R. P. L.
May 1	"	- 9.8	0.0	+ 0.10	+ 0.51	+ 0.06	+ 0.23	Arcturus & 33 R. P. L.
3	"	- 11.0	0.0	+ 0.14	+ 0.52	+ 0.05	+ 0.18	103 and 12 R. P. L.
9	"	- 10.7	0.0	+ 0.06	+ 0.52	+ 0.04	+ 0.06	108 and 14 R. P. L.
12	"	- 10.6	0.0	+ 0.06	+ 0.52	+ 0.03	+ 0.17	114 and 33 R. P. L.
13	"	- 10.2	0.0	+ 0.10	+ 0.55	+ 0.04	+ 0.21	108 and 18 R. P. L.
16	"	- 10.7	0.0	+ 0.09	+ 0.58	+ 0.04	+ 0.14	103 and 12 R. P. L.
17	"	- 10.5	0.0	+ 0.10	+ 0.56	+ 0.02	+ 0.36	111 and 35 R. P. L.
20	"	- 9.7	0.0	+ 0.17	+ 0.54	+ 0.02	+ 0.41	111 and 35 R. P. L.
22	"	- 10.0	0.0	+ 0.19	+ 0.52	+ 0.04	+ 0.37	114 and 35 R. P. L.
25	"	- 10.1	0.0	+ 0.18	+ 0.52	+ 0.03	+ 0.33	114 and 35 R. P. L.
26	"	- 9.4	0.0	+ 0.18	+ 0.52	+ 0.05	+ 0.35	114 and 35 R. P. L.
June 2	M	- 8.9	0.0	+ 0.32	+ 0.61	+ 0.06	+ 0.39	114 R. P. L. and $\alpha$ Libræ.

*Instrumental Corrections adopted in 1876.*

Date.	Obs.	Index.	Run in 5'.	Clock Rate.	Inclina- tion.	Collima- tion.	Meridian.	Determining Stars
		"	"	s	s	s	s	
June 5	M	- 9.4	0.0	+ 0.28	+ 0.57	+ 0.03	+ 0.39	δ Ursæ Min. and α Libræ. 114 and 35 R. P. L. 131 and 43 R. P. L.
6	"	- 10.1	0.0	+ 0.26	+ 0.60	+ 0.03	+ 0.39	
8	"	- 8.9	0.0	+ 0.27	+ 0.59	+ 0.03	+ 0.33	
14	"	- 9.3	0.0	+ 0.28	+ 0.60	+ 0.04	+ 0.37	
17	"	- 7.2	0.0	+ 0.26	+ 0.59	+ 0.05	+ 0.40	
27	"	- 7.0	0.0	+ 0.26	+ 0.60	- 0.04	+ 0.42	
July 5	R	- 6.7	0.0	+ 0.25	+ 0.49	+ 0.02	+ 0.44	24 Urs. Min. & 42 R. P. L. 131 and 42 R. P. L.
10	"	- 9.2	0.0	+ 0.06	+ 0.47	+ 0.03	+ 0.45	
19	"	- 7.7	0.0	- 0.06	+ 0.47	+ 0.05	+ 0.47	
20	"	- 8.1	0.0	- 0.09	+ 0.44	+ 0.03	+ 0.47	
22	"	- 7.8	0.0	- 0.14	+ 0.40	+ 0.03	+ 0.47	
29	"	- 7.2	0.0	+ 0.03	+ 0.45	+ 0.05	+ 0.49	
31	"	- 6.5		+ 0.06	+ 0.43	+ 0.04	+ 0.52	
Aug. 1	"	- 7.9	0.0	+ 0.07	+ 0.46	+ 0.04	+ 0.53	δ Urs. Min. & 42 R. P. L.
2	"	- 7.7	0.0	+ 0.09	+ 0.42	+ 0.05	+ 0.51	
3	"	- 7.2	0.0	+ 0.08	+ 0.44	+ 0.05	+ 0.50	24 Urs. Min. & 42 R. P. L.
4	"	- 7.8	0.0	+ 0.06	+ 0.42	+ 0.04	+ 0.48	24 Urs. Min. & 42 R. P. L.
7	"	- 8.3	0.0	+ 0.07	+ 0.43	+ 0.06	+ 0.48	
10	"	- 7.8	0.0	+ 0.12	+ 0.43	+ 0.05	+ 0.48	
12	"	- 7.5	0.0	+ 0.07	+ 0.42	+ 0.04	+ 0.48	
14	"	- 7.3	0.0	- 0.12	+ 0.41	+ 0.04	+ 0.49	
15	"	- 6.8	0.0	- 0.16	+ 0.43	+ 0.06	+ 0.49	
16	"	- 7.7	0.0	- 0.15	+ 0.40	+ 0.03	+ 0.49	
18	"	- 8.0	0.0	- 0.07	+ 0.40	+ 0.04	+ 0.49	
21	M	- 8.9	0.0	+ 0.02	+ 0.48	+ 0.03	+ 0.49	131 and 45 R. P. L.
26	R	- 7.9	0.0	- 0.13	+ 0.40	+ 0.04	+ 0.50	δ Urs. Min. and 42 R. P. L.
Sep. 6	"	- 7.1	- 0.1	- 0.18	+ 0.38	+ 0.05	+ 0.47	143 and 70 R. P. L.
7	"	- 5.7	- 0.1	- 0.17	+ 0.38	+ 0.05	+ 0.46	
14	"	- 6.7	- 0.1	- 0.10	+ 0.41	+ 0.05	+ 0.37	143 and 60 R. P. L.
18	"	- 6.5	- 0.1	- 0.11	+ 0.38	+ 0.05	+ 0.41	143 and 49 R. P. L.
19	"	- 7.8	- 0.1	- 0.01	+ 0.40	+ 0.05	+ 0.43	
20	"	- 8.2	- 0.1	+ 0.08	+ 0.40	+ 0.04	+ 0.45	
22	"	- 7.0	- 0.1	+ 0.16	+ 0.39	+ 0.04	+ 0.49	
23	"	- 7.7	- 0.1	+ 0.17	+ 0.41	+ 0.05	+ 0.51	
25	"	- 8.7	- 0.1	+ 0.08	+ 0.38	+ 0.04	+ 0.55	151 and 72 R. P. L.
26	"	- 7.5	- 0.1	+ 0.08	+ 0.39	+ 0.05	+ 0.53	
29	"	- 6.2	- 0.1	+ 0.14	+ 0.46	+ 0.04	+ 0.49	150 and 70 R. P. L.
Oct. 2	"	- 6.7	- 0.1	+ 0.07	+ 0.38	+ 0.05	+ 0.51	151 and 69 R. P. L. 150 and 70 R. P. L.
4	"	- 6.6	- 0.1	+ 0.09	+ 0.38	+ 0.05	+ 0.52	
5	"	- 7.5	- 0.1	+ 0.08	+ 0.37	+ 0.04	+ 0.53	
7	"	- 6.8	- 0.1	- 0.08	+ 0.33	+ 0.04	+ 0.54	
10	"	- 6.7	- 0.1	- 0.16	+ 0.36	+ 0.04	+ 0.55	
13	"	- 7.6	- 0.1	- 0.01	+ 0.38	+ 0.05	+ 0.46	
18	M	- 8.6	+ 0.6	+ 0.27	+ 0.38	+ 0.04	+ 0.40	
19	"	- 8.3	+ 0.6	+ 0.22	+ 0.33	0.00	+ 0.39	143 and 60 R. P. L.
21	"	- 9.8	+ 0.6	- 0.07	+ 0.33	+ 0.01	+ 0.38	143 and 60 R. P. L.
23	"	- 9.1	+ 0.6	- 0.19	+ 0.34	+ 0.04	+ 0.42	143 and 60 R. P. L.
24	"	- 9.3	+ 0.6	- 0.18	+ 0.35	+ 0.04	+ 0.41	
30	"	- 9.4	+ 0.6	- 0.08	+ 0.26	+ 0.03	+ 0.38	143 and 60 R. P. L.
31	"	- 9.3	+ 0.6	- 0.06	+ 0.26	+ 0.04	+ 0.44	150 and 60 R. P. L.
Nov. 1	"	- 9.1	- 0.1	- 0.04	+ 0.26	+ 0.04	+ 0.47	150 and 70 R. P. L. 150 and 70 R. P. L. Polaris and β Ceti. 2 Urs. Min. and 89 R. P. L.
2	"	- 9.8	- 0.1	- 0.01	+ 0.28	+ 0.06	+ 0.50	
3	"	- 10.0	- 0.1	+ 0.01	+ 0.28	+ 0.06	+ 0.47	
14	"	- 5.3	- 0.1	- 0.23	+ 0.23	+ 0.07	+ 0.47	
27	"	- 8.8	- 0.1	- 0.27	+ 0.13	+ 0.01	+ 0.45	

Heavy rain between November 3rd and 14th.

*Instrumental Corrections adopted in 1876.*

Date.	Obs.	Index.	Run in 5'	Clock Rate.	Inclina- tion.	Collima- tion.	Meridian.	Determining Stars.
Nov. 30	M	- 8.7	- 0.1	- 0.15	+ 0.18	+ 0.05	+ 0.51	Polaris and 116 R. P. L.
Dec. 1	"	- 6.8	- 0.3	- 0.32	+ 0.17	+ 0.02	+ 0.52	
4	"	- 6.8	- 0.3	- 0.65	+ 0.15	+ 0.04	+ 0.54	34 and 115 R. P. L.
5	"	- 6.9	- 0.3	- 0.54	+ 0.09	+ 0.02	+ 0.54	
6	"	- 7.0	- 0.3	- 0.47	+ 0.10	+ 0.02	+ 0.54	34 and 115 R. P. L.
7	"	- 7.3	- 0.3	- 0.42	+ 0.10	+ 0.02	+ 0.53	
8	"	- 8.0	- 0.3	- 0.48	+ 0.10	+ 0.03	+ 0.52	
9	"	- 7.6	- 0.3	- 0.52	+ 0.08	+ 0.02	+ 0.51	
11	"	- 8.5	- 0.3	- 0.35	+ 0.06	+ 0.01	+ 0.50	
12	"	- 8.7	- 0.3	- 0.37	+ 0.10	+ 0.01	+ 0.49	34 and 116 R. P. L.
13	"	- 8.8	- 0.3	- 0.43	+ 0.08	- 0.01	+ 0.46	
14	"	- 8.9	- 0.3	- 0.42	+ 0.08	0.00	+ 0.43	
15	"	- 9.1	- 0.3	- 0.34	+ 0.09	+ 0.01	+ 0.40	2 Urs. Min. & 111 R. P. L.
16	"	- 10.2	- 0.3	- 0.36	+ 0.12	+ 0.05	+ 0.46	
18	"	- 9.7	- 0.3	- 0.36	+ 0.08	+ 0.01	+ 0.59	2 Urs. Min. & 103 R. P. L.
19	"	- 10.5	- 0.3	- 0.31	+ 0.08	+ 0.02	+ 0.54	
20	"	- 11.1	- 0.3	- 0.32	+ 0.06	+ 0.01	+ 0.50	2 Urs. Min. & 111 R. P. L.
21	"	- 11.2	- 0.3	- 0.33	+ 0.05	+ 0.04	+ 0.47	2 Urs. Min. and $\theta^1$ Ceti.
22	"	- 10.9	- 0.3	- 0.36	+ 0.06	+ 0.01	+ 0.44	
25	E	- 10.2	- 0.3	- 0.28	+ 0.12	+ 0.04	+ 0.46	35 R. P. L. and $\delta$ Urs. Min



*Corrections to the Nautical Almanac Stars as given by the Madras Mean Positions.*

Stars.	Approximate Place 1875.		1874.			1875.			1876.		
			Obs.	R. A.	P. D.	Obs.	R. A.	P. D.	Obs.	R. A.	P. D.
	<i>h. m.</i>	<i>° ' "</i>		<i>s</i>	<i>"</i>		<i>s</i>	<i>"</i>		<i>s</i>	<i>"</i>
$\alpha$ Andromedæ ...	0 2	61 36	2	- 0.08	- 0.8	1	+ 0.18	+ 1.0	...	.....	.....
$\gamma$ Pegasi ( <i>Algenib</i> ) ...	0 7	75 31	4	+ 0.01	- 1.2	2	- 0.03	+ 0.6	...	.....	.....
12 Ceti ...	0 24	94 39	7	0.00	- 1.3	1	- 0.04	- 0.4	1	+ 0.07	+ 0.4
$\beta$ Ceti ...	0 37	108 40	6	- 0.03	- 0.9	3	+ 0.11	- 0.7	1	+ 0.01	- 0.5
$\epsilon$ Piscium ...	0 56	82 47	7	- 0.04	- 1.3	3	- 0.03	- 1.0	1	- 0.01	0.0
$\alpha$ Urs. Min. ( <i>Polaris</i> ) .	1 13	1 21	1	- 0.55	+ 2.6	2	+ 0.94	+ 3.7	...	.....	.....
$\theta$ Ceti ...	1 18	98 50	1	+ 0.06	- 2.1	6	+ 0.04	- 0.1	3	- 0.04	- 0.4
$\eta$ Piscium ...	1 25	75 18	1	- 0.02	+ 1.7	6	- 0.01	+ 1.0	...	.....	.....
$\nu$ Piscium ...	1 35	85 9	3	+ 0.13	- 2.2	4	- 0.02	- 1.8	7	+ 0.05	- 1.8
$\beta$ Arietis ...	1 48	69 48	7	+ 0.03	- 1.2	6	+ 0.01	- 0.8	2	- 0.01	+ 0.2
$\alpha$ Arietis ...	2 0	67 8	...	.....	.....	5	- 0.06	- 0.3	6	0.00	+ 1.9
67 Ceti ...	2 11	97 0	1	+ 0.12	- 1.5	5	+ 0.01	- 1.0	6	+ 0.03	- 0.2
$\xi^2$ Ceti ...	2 22	82 6	3	+ 0.03	- 1.5	5	+ 0.01	- 1.8	6	- 0.03	- 0.4
$\gamma^2$ Ceti ...	2 37	87 18	17	- 0.01	- 2.7	6	+ 0.01	- 3.1	10	+ 0.02	- 1.1
$\alpha$ Ceti ( <i>Menkar</i> ) ...	2 56	86 24	11	- 0.05	- 1.1	8	- 0.02	- 2.4	8	+ 0.01	- 1.7
$\delta$ Arietis ...	3 4	70 45	4	0.00	+ 1.2	5	+ 0.03	+ 0.4	9	- 0.03	+ 1.0
$\alpha$ Persei ...	3 15	40 35	1	- 0.12	+ 0.1	...	.....	.....	...	.....	.....
$\epsilon$ Eridani ...	3 27	99 53	...	.....	.....	...	.....	.....	1	0.00	- 1.4
$\eta$ Tauri ( <i>Alcyone</i> ) ...	3 40	66 17	11	- 0.02	- 0.3	12	- 0.01	- 0.3	8	+ 0.02	0.0
$\gamma^1$ Eridani ...	3 52	103 52	20	+ 0.02	- 1.2	9	+ 0.02	- 1.2	11	0.00	- 0.3
$\alpha^1$ Eridani ...	4 6	97 10	11	+ 0.04	- 0.6	2	+ 0.02	- 2.2	5	0.00	+ 0.1
$\epsilon$ Tauri ...	4 21	71 6	10	+ 0.03	- 0.2	7	- 0.01	- 0.7	7	0.00	+ 0.3
$\alpha$ Tauri ( <i>Aldebaran</i> )...	4 29	73 45	10	- 0.03	+ 0.4	4	+ 0.02	+ 0.1	5	- 0.03	+ 1.3
$\epsilon$ Aurigæ ...	4 49	57 2	17	+ 0.01	- 0.5	8	+ 0.07	- 0.3	8	+ 0.03	+ 0.2
$\epsilon$ Leporis ...	5 0	112 32	16	+ 0.01	- 1.5	7	- 0.02	- 1.0	7	- 0.01	- 0.2
$\alpha$ Aurigæ ( <i>Capella</i> ) ...	5 7	44 8	1	- 0.17	+ 0.1	...	.....	.....	...	.....	.....
$\beta$ Orionis ( <i>Rigel</i> ) ..	5 9	98 21	9	0.00	- 1.9	...	.....	.....	2	+ 0.02	- 0.8
$\beta$ Tauri ...	5 18	61 30	18	0.00	- 0.5	7	- 0.06	0.0	...	.....	.....
$\delta$ Orionis ...	5 26	90 24	2	- 0.03	- 2.5	3	- 0.06	- 0.7	1	0.00	+ 1.5
$\alpha$ Leporis ...	5 27	107 55	4	- 0.05	- 0.6	...	.....	.....	2	- 0.02	+ 0.5
$\epsilon$ Orionis ...	5 30	91 17	9	+ 0.07	- 1.4	1	- 0.05	- 0.3	4	- 0.05	0.0
$\alpha$ Columbæ ...	5 35	124 8	1	- 0.15	- 0.4	...	...	.....	3	- 0.02	+ 1.0
$\alpha$ Orionis ...	5 48	82 37	13	- 0.05	- 1.6	5	+ 0.16	- 0.9	4	0.00	+ 2.0
$\nu$ Orionis ...	6 0	75 13	6	+ 0.07	- 0.3	1	+ 0.07	- 1.8	2	+ 0.01	+ 1.2
$\mu$ Geminorum ...	6 15	67 25	6	- 0.02	- 0.7	2	- 0.03	- 0.5	...	.....	.....

*Corrections to the Nautical Almanac Stars as given by the Madras Mean Positions.*

Stars.	Approximate Place 1875.		1874.			1875.			1876.			
			Obs.	R. A.	P. D.	Obs.	R. A.	P. D.	Obs.	R. A.	P. D.	
	<i>h.</i>	<i>m.</i>		<i>s</i>	<i>"</i>		<i>s</i>	<i>"</i>		<i>s</i>	<i>"</i>	
$\gamma$ Geminorum ...	6	30	73 30	1	+ 0.14	+ 0.2	8	+ 0.06	+ 0.1	1	+ 0.01	+ 0.2
$\alpha$ Canis Maj. ( <i>Sirius</i> )..	6	40	106 33	1	- 0.12	+ 3.0	...	.....	.....	...	.....	.....
51 (Hev.) Cephei ...	6	41	2 46	2	+ 0.37	+ 0.7	16	+ 0.14	+ 2.1	2	+ 0.15	- 1.3
$\epsilon$ Canis Majoris ...	6	54	113 48	1	+ 0.02	- 1.7	15	- 0.03	- 0.4	...	.....	.....
$\gamma$ Canis Majoris ...	6	58	105 27	6	0.00	- 0.1	14	- 0.04	0.0	1	- 0.04	+ 0.2
$\alpha^2$ Geminorum ( <i>Castor</i> )	7	27	57 50	4	+ 0.02	+ 0.4	13	+ 0.03	+ 0.1	2	+ 0.02	+ 0.3
$\alpha$ Can. Min. ( <i>Procyon</i> )	7	33	84 27	13	- 0.08	- 2.7	9	- 0.08	- 1.7	3	- 0.12	- 3.3
$\beta$ Geminorum ( <i>Pollux</i> )	7	38	61.40	5	+ 0.08	+ 1.0	5	+ 0.07	- 0.1	2	+ 0.15	- 0.2
6 Cancri ...	7	56	61 51	2	+ 0.06	+ 0.3	5	- 0.02	- 0.8	2	+ 0.04	- 1.6
15 Argus ( <i>Navis</i> ) ...	8	2	113 57	7	- 0.07	- 0.3	7	+ 0.03	- 0.4	2	- 0.04	- 1.8
$\eta^2$ Cancri ...	8	25	69 8	7	+ 0.05	- 0.6	5	+ 0.04	- 2.5	1	+ 0.03	- 1.4
$\epsilon$ Hydræ ...	8	40	83 7	13	+ 0.01	- 1.3	6	+ 0.01	- 1.1	3	+ 0.02	- 2.8
83 Cancri ...	9	12	71 46	6	+ 0.04	- 0.3	1	+ 0.02	- 0.8	3	0.00	- 1.4
$\alpha$ Hydræ ...	9	21	98 7	11	- 0.02	- 1.2	...	.....	.....	3	- 0.05	- 1.5
$\theta$ Ursæ Majoris ...	9	24	37 45	2	+ 0.18	- 3.7	...	.....	.....	...	.....	.....
$\epsilon$ Leonis ...	9	39	65 39	10	- 0.02	+ 0.6	3	- 0.03	- 1.4	3	- 0.01	- 0.4
$\pi$ Leonis ...	9	54	81 21	7	+ 0.02	- 0.7	1	+ 0.06	- 1.8	1	- 0.08	- 1.2
$\alpha$ Leonis ( <i>Regulus</i> ) ...	10	2	77 25	8	- 0.01	- 0.2	3	+ 0.04	- 0.5	2	- 0.04	- 0.9
$\gamma^1$ Leonis ...	10	13	69 32	7	- 0.04	- 0.5	4	+ 0.04	+ 0.9	2	- 0.03	- 0.5
$\rho$ Leonis ...	10	26	80 3	5	- 0.04	- 3.1	6	- 0.04	- 2.6	1	- 0.02	- 4.0
$\iota$ Leonis ...	10	43	78 48	8	+ 0.05	- 1.7	10	+ 0.03	- 2.2	5	+ 0.04	- 2.4
$\chi$ Leonis ...	10	59	81 59	5	+ 0.02	- 1.6	11	0.00	- 2.3	2	+ 0.03	- 2.5
$\delta$ Leonis ...	11	7	68 48	3	- 0.07	+ 0.1	14	- 0.04	- 1.3	2	- 0.06	- 1.7
$\delta$ Crateris ...	11	13	104 6	2	+ 0.01	0.0	7	+ 0.01	- 1.5	4	0.00	- 1.0
$\nu$ Leonis ...	11	31	90 8	...	....	.....	10	+ 0.01	- 1.8	2	+ 0.02	- 1.8
$\beta$ Leonis ( <i>Deneb</i> ) ...	11	43	74 44	1	- 0.02	- 0.4	8	+ 0.04	0.0	3	+ 0.02	- 0.1
$\gamma$ Ursæ Majoris ...	11	47	35 37	1	+ 0.09	- 2.4	...	.....	.....	...	.....	.....
$\epsilon$ Corvi ...	12	4	111 55	5	+ 0.01	- 0.6	2	+ 0.05	- 0.3	2	- 0.05	- 1.1
$\eta$ Virginis ...	12	14	89 58	4	+ 0.02	- 1.9	.	.....	.....	2	+ 0.03	- 2.0
$\alpha^1$ Crucis ...	12	20	152 24	1	- 0.18	- 0.6	..	.....	.....	...	.....	.....
$\beta$ Corvi ..	12	28	112 42	4	+ 0.06	- 1.3	4	+ 0.03	+ 0.4	1	- 0.02	- 1.6
$\gamma$ Virginis ( <i>Mean</i> ) ...	12	35	90 46	4	+ 0.06	+ 1.5	..	...	.....	...	.....	.....
$\alpha$ Canum Venaticor...	12	50	51 0	2	+ 0.03	- 0.2	13	+ 0.03	+ 0.3	...	.....	.....
$\theta$ Virginis ...	13	3	94 52	10	+ 0.01	0.0	16	0.00	- 0.7	6	- 0.02	- 1.8
$\alpha$ Virginis ( <i>Spica</i> ) ...	13	19	100 30	9	- 0.03	0.0	10	- 0.03	- 1.0	1	+ 0.04	- 1.4

*Corrections to the Nautical Almanac Stars as given by the Madras Mean Positions.*

Star.	Approximate Place 1875.		1874.			1875.			1876.			
			Obs.	R. A.	P. D.	Obs.	R. A.	P. D.	Obs.	R. A.	P. D.	
	<i>h.</i>	<i>m.</i>		<i>s</i>	<i>"</i>		<i>s</i>	<i>"</i>		<i>s</i>	<i>"</i>	
ζ Virginis ...	13	28	89 57	6	+ 0.03	- 0.6	8	- 0.01	- 0.1	4	+ 0.01	- 1.5
η Bootis ...	13	49	70 58	14	- 0.01	- 0.7	13	- 0.01	- 1.1	5	0.00	- 2.0
β Centauri ...	13	55	149 46	3	- 0.04	- 0.1	3	- 0.14	- 2.2	...	.....	.....
τ Virginis ...	13	55	87 51	...	.....	.....	11	0.00	- 1.8	7	+ 0.01	- 2.8
α Bootis ( <i>Arcturus</i> )...	14	10	70 10	5	+ 0.02	+ 1.4	10	- 0.01	+ 0.9	5	- 0.03	+ 0.6
ρ Bootis ...	14	26	59 5	2	- 0.03	+ 1.2	11	- 0.02	+ 0.1	2	- 0.01	- 0.4
ε <sup>2</sup> Bootis ( <i>Mirac</i> ) ...	14	40	62 24	13	+ 0.01	+ 0.4	13	+ 0.02	- 0.6	2	- 0.09	- 1.1
α Libræ ...	14	44	105 31	3	- 0.05	+ 1.4	12	- 0.02	+ 0.3	8	+ 0.02	- 0.5
ψ Bootis ...	14	59	62 34	3	+ 0.02	- 0.6	6	- 0.02	- 0.2	2	- 0.04	- 0.8
β Libræ ...	15	10	93 55	9	+ 0.02	- 0.1	9	+ 0.04	- 0.8	4	+ 0.04	- 1.2
α Coronæ Borealis ...	15	29	62 52	7	- 0.04	- 0.9	6	- 0.01	- 0.3	4	+ 0.02	- 0.3
α Serpentis ...	15	38	83 11	5	+ 0.01	- 2.0	6	0.00	- 1.3	3	- 0.04	- 1.0
ζ Ursæ Minoris ...	15	49	11 49	...	.....	.....	1	+ 0.31	- 2.5	...	.....	.....
β <sup>1</sup> Scorpii ...	15	58	109 28	10	- 0.03	- 1.7	5	+ 0.06	- 1.6	1	0.00	- 0.4
δ Ophiuchi ...	16	8	93 22	9	+ 0.03	+ 0.3	7	+ 0.02	+ 0.5	4	0.00	+ 1.1
α Scorpii ( <i>Antares</i> ) ...	16	22	116 9	6	0.00	- 1.9	5	- 0.03	- 0.9	3	+ 0.03	+ 0.6
η <sup>2</sup> Draconis ...	16	22	28 12	...	.....	.....	7	+ 0.18	- 3.0	...	.....	.....
α Trianguli Australis..	16	35	158 48	3	- 0.07	+ 3.0	4	- 0.05	+ 0.1	...	.....	.....
ζ Herculis ...	16	37	58 10	3	- 0.06	+ 0.4	7	- 0.06	+ 0.3	6	- 0.04	+ 0.3
κ Ophiuchi ...	16	52	80 26	8	0.00	- 0.9	17	+ 0.03	- 0.6	3	+ 0.04	- 1.0
ε Ursæ Minoris ...	16	59	7 46	3	+ 0.02	- 0.1	1	- 1.17	+ 0.7	1	+ 0.77	+ 0.7
α <sup>1</sup> Herculis ...	17	0	75 28	8	+ 0.03	- 0.9	15	- 0.02	- 2.0	9	+ 0.02	- 2.0
θ Ophiuchi ...	17	14	114 52	4	+ 0.04	+ 0.3	5	+ 0.07	+ 1.3	4	+ 0.04	+ 0.5
β Draconis ...	17	28	37 36	2	- 0.09	0.0	3	+ 0.02	- 3.2	...	.....	.....
α Ophiuchi ...	17	29	77 21	2	- 0.01	+ 0.2	4	+ 0.04	- 0.7	8	+ 0.03	- 1.1
μ Herculis ...	17	42	62 12	4	0.00	- 0.1	9	- 0.06	- 0.8	7	- 0.06	- 1.5
γ Draconis ...	17	54	38 30	1	+ 0.09	+ 1.5	...	.....	.....	...	.....	.....
μ Sagittarii ...	18	6	111 5	3	+ 0.07	0.0	9	+ 0.06	- 0.2	3	+ 0.04	- 1.2
δ Ursæ Minoris ...	18	13	3 24	3	- 0.45	- 2.3	...	.....	.....	6	- 0.71	- 0.6
α Lyræ ( <i>Vega</i> ) ...	18	33	51 20	9	- 0.04	+ 0.6	2	- 0.02	- 1.2	2	- 0.08	- 1.0
β <sup>1</sup> Lyræ ...	18	45	56 47	10	- 0.03	+ 0.8	3	- 0.01	- 1.6	2	+ 0.01	- 0.4
ζ Aquilæ ...	19	0	76 19	13	+ 0.03	+ 0.7	12	+ 0.02	- 0.3	7	0.00	0.0
ω Aquilæ ...	19	12	78 38	10	+ 0.05	- 1.6	6	- 0.03	- 0.1	3	+ 0.03	- 1.6
δ Aquilæ ...	19	19	87 8	16	0.00	- 0.8	4	+ 0.07	- 1.2	3	- 0.03	- 1.0
h <sup>2</sup> Sagittarii...	19	29	115 9	10	- 0.03	+ 0.7	1	+ 0.03	+ 0.9	4	0.00	- 0.4

*Corrections to the Nautical Almanac Stars as given by the Madras Mean Positions.*

Star.	Approximate Place 1875.			1874.			1875.			1876.		
				Obs.	R. A.	P. D.	Obs.	R. A.	P. D.	Obs.	R. A.	P. D.
	<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>s</i>	<i>"</i>		<i>s</i>	<i>"</i>		<i>s</i>	<i>"</i>
$\gamma$ Aquilæ ...	19	40	79 41	10	- 0.02	- 1.4	10	- 0.05	- 0.6	2	0.00	- 2.5
$\alpha$ Aquilæ ( <i>Altair</i> ) ..	19	45	81 28	9	- 0.01	- 2.0	5	+ 0.02	- 1.2	1	+ 0.04	- 1.7
$\beta$ Aquilæ ...	19	49	83 54	5	+ 0.07	- 1.3	4	+ 0.03	- 1.5	2	+ 0.10	- 2.4
$\alpha^2$ Capricorni ...	20	11	102 56	7	- 0.02	- 1.0	1	+ 0.05	+ 1.8	5	+ 0.03	- 0.2
$\rho$ Capricorni ...	20	22	108 14	11	+ 0.04	- 1.4	5	- 0.01	- 1.6	5	+ 0.03	- 0.2
$\alpha$ Cygni ( <i>Deneb</i> ) ...	20	37	45 10	13	- 0.02	- 0.3	3	+ 0.03	+ 0.1	3	+ 0.11	- 0.2
$\beta$ Vulpeculæ ..	20	40	62 25	10	- 0.02	+ 0.1	6	+ 0.02	+ 0.1	8	- 0.03	+ 0.4
$\zeta$ Cygni ...	21	8	60 17	12	- 0.03	- 0.2	14	- 0.01	+ 0.1	5	+ 0.07	0.0
$\beta$ Aquarii ..	21	25	93 7	18	+ 0.03	- 0.8	16	+ 0.04	- 0.2	15	- 0.02	+ 0.2
$\epsilon$ Pegasi ...	21	38	80 42	5	- 0.13	- 1.6	9	- 0.07	- 0.6	12	- 0.03	- 0.5
$\delta$ Pegasi ..	21	47	64 40	4	+ 0.02	+ 0.5	8	- 0.03	- 0.2	3	- 0.07	+ 0.6
$\alpha$ Aquarii ...	21	59	90 56	4	+ 0.10	- 0.4	6	- 0.01	- 0.2	6	+ 0.02	- 0.3
$\theta$ Aquarii ...	22	10	98 24	6	+ 0.05	- 1.2	11	+ 0.01	- 2.0	4	+ 0.05	- 1.8
$\eta$ Aquarii ...	22	29	90 46	4	- 0.02	- 0.4	6	+ 0.04	- 1.5	2	+ 0.01	0.0
$\zeta$ Pegasi ...	22	35	79 49	8	- 0.01	- 1.6	11	- 0.02	- 1.3	...	.....	.....
$\alpha$ Piscis Australis ...	22	51	120 17	6	+ 0.02	- 0.8	5	+ 0.04	- 0.3	...	.....	.....
$\alpha$ Pegasi ( <i>Murkab</i> ) ..	22	59	75 28	8	- 0.04	- 1.3	5	- 0.03	- 0.7	1	- 0.02	- 0.2
$\gamma$ Piscium ...	23	11	87 24	6	- 0.01	- 1.9	8	- 0.01	- 3.2	1	+ 0.03	- 1.0
$\kappa$ Piscium ...	23	21	89 26	6	0.00	- 0.5	8	0.00	- 0.9	1	- 0.05	+ 1.2
$\iota$ Piscium ...	23	34	85 3	10	- 0.02	- 2.6	9	- 0.03	- 1.1	2	- 0.02	+ 0.4
$\gamma$ Cephei ...	23	34	13 4	5	+ 0.10	- 0.2	...	.....	.....	...	.....	...
$\delta$ Sculptoris ...	23	42	118 49	9	+ 0.05	- 0.5	5	- 0.05	+ 0.2	1	- 0.02	+ 1.3
$\omega$ Piscium ...	23	53	83 50	4	+ 0.03	- 2.0	3	- 0.01	- 2.3	...	.....	.....

*Errata in this and the four previous volumes.*

Page.	No.	Subject.	For	Read
<i>In Madras Meridian Circle Observations for 1862, 63, and 64.</i>				
111	861	Annual Precession in P. D. ...	3.392	3.292
<i>In Madras Meridian Circle Observations for 1865, 66, and 67.</i>				
231	863	Annual Precession in R. A. ...	3.5510	3.3510
<i>In Madras Meridian Circle Observations for 1868, 69, and 70.</i>				
81	498	Annual Precession in R. A. ...	2.9818	2.9518
99	818	" "	2.1831	2.1855
<i>In Madras Meridian Circle Observations for 1871, 72, and 73.</i>				
114	820	Name ...	R Sagittarii, Var. 1	R Sagittae, Var. 1
163	731	Annual Precession in R. A. ...	2.7827	2.7287
168	820	Name ...	R Sagittarii, Var. 1	R Sagittae, Var. 1
223	27	Sign of Proper Motion in R. A. ...	—	+
227	84	Secular Variation in R. A. ...	0.0027	0.0047
231	154	Annual Precession in P. D. ...	1.330	1.335
237	280	Sign of Proper Motion in R. A. ...	+	—
I		Introduction ...	Anwer's	Anwers'
"		" ...	Robert Norman	Norman Robert
<i>In Madras Meridian Circle Observations for 1874, 75 and 76.</i>				
36 } 72 }	485	Name ...	R Sagittarii, Var. 1	R Sagittae, Var. 1
39	532	Date ...	Oct.	Oct.
63	285	Annual Precession in R. A. ...	2.6204	2.6240
91	102	Date ...	May	Mar.
127	265	Sign of Proper Motion in R. A. ...	—	+
133	20	Date ...	July	Delete 'July'

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SEPARATE RESULTS  
OF  
OBSERVATIONS  
OF THE FIXED STARS  
MADE WITH THE  
MADRAS MERIDIAN CIRCLE  
IN THE YEAR  
1874

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*Separate Results of Madras Meridian Circle Observations in 1874.*

Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.
		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>o.</i>	<i>'</i>	<i>"</i>	
<b>1</b> <i>21 Andromedæ α, Alpherat.</i>									
Nov. 13	...	0	1	52.51	...	61	36	18.0	R
Dec. 1	...		1	52.60	...		36	18.6	R
<b>2</b> <i>Anon.</i>									
Oct. 15	9.2	0	2	23.34	4	127	26	40.9	M
<b>3</b> <i>Anon.</i>									
Oct. 14	9.7	0	5	28.90	5	126	14	44.7	M
<b>4</b> <i>88 Pegasi γ, Algenib.</i>									
Oct. 27	...	0	6	44.94	...	75	31	1.3	M
Nov. 4	...		6	44.94	...		31	1.7	M
Nov. 25	...		6	44.94	...		31	1.2	R
Dec. 3	...		6	44.94	...		30	58.9	R
<b>5</b> <i>Anon.</i>									
Oct. 3	9.0	0	19	31.75	...	26	33	17.5	M
<b>6</b> <i>12 Ceti.</i>									
Nov. 4	...	0	23	36.41	...	94	39	14.4	M
19	...		23	36.65	...		39	12.3	R
20	...		23	36.47	...		39	12.7	R
28	...		23	36.44	...		39	12.5	R
Dec. 3	...		23	36.49	...		39	10.6	R
4	...		23	36.40	...		39	11.9	R
5	...		23	36.43	...		39	13.3	M
<b>7</b> <i>Anon.</i>									
Nov. 13	10.6	0	26	34.53	...	76	11	50.0	R
17	10.5		26	34.66	...		11	49.4	R
21	10.6		26	34.78	...		11	46.8	R
Dec. 1	10.6		26	34.53	...		11	48.6	R
<b>8</b> <i>U Piscium, Var. 4.</i>									
Nov. 9	9.3	0	36	41.16	...	83	22	17.2	R
12	9.2		36	41.01	...		22	17.9	R
13	10.0		36	40.96	...		22	16.9	R
17	10.1		36	40.68	...		22	14.4	R
18	10.0		36	40.99	4		22	17.0	R
<b>9</b> <i>16 Ceti β.</i>									
Nov. 21	...	0	37	15.79	...	108	40	42.4	R
Dec. 2	...		37	15.78	...		40	40.8	R
15	...		37	15.82	...		40	43.1	M
17	...		37	15.64	...		40	43.9	M
18	...		37	15.76	...		40	43.6	M
19	...		37	15.67	...		40	40.7	M
<b>10</b> <i>R. P. L. 10.</i>									
Oct. 12	...	0	49	24.51	3	1	39	11.6	M
15	...		49	26.81	3		39	10.2	M
16	...		49	24.16	3		39	10.8	M
29	...		49	26.82	3		39	10.7	M
30	...		49	24.88	3		39	11.5	M
Nov. 3	...		49	24.13	3		39	11.1	R
4	...		49	24.37	3		39	10.6	M
<i>R. P. L. 10—s.p.</i>									
Mar. 21	...	0	49	23.85	3	1	39	12.3	R
Apl. 21	...		49	26.32	3		39	12.6	M
23	...		49	26.52	3		39	13.7	R
24	...		49	25.17	3		39	11.6	R
27	...		49	24.53	3		39	12.5	R
May 19	...		49	24.13	3		39	10.8	R
21	...		49	24.87	3		39	12.7	R
22	...		49	25.05	3		39	12.3	R
<b>11</b> <i>2 Ursæ Minoris—s.p.</i>									
May 30	...	0	51	54.75	3	4	25	14.9	R
June 4	...		51	53.29	4		25	16.7	M
5	...		51	53.63	3		25	14.6	M
<b>12</b> <i>R. P. L. 14.</i>									
Oct. 31	...	0	55	20.17	3	3	31	38.0	M
Nov. 2	...		55	18.88	3		31	37.0	R
12	...		55	19.47	3		31	38.0	R
13	...		55	19.99	3		31	37.0	R
17	...		55	19.98	3		31	37.7	R
19	...		55	19.06	3		31	36.3	R
20	...		55	19.52	3		31	35.4	R
21	...		55	19.51	3		31	35.3	R
Dec. 2	...		55	19.40	3		31	34.1	R





*Separate Results of Madras Meridian Circle Observations in 1874.*

Number and Date.	Mean Right Ascension 1874.				Mean Polar Distance 1874.	Number and Date.	Magnitude	Mean Right Ascension 1874.				Mean Polar Distance 1874.
	M	h.	m.	s.				h.	m.	s.		
<b>25</b>					<i>Anon.</i>	20	8.0	2	19	37.10	90	44 53.0
Nov. 12	10.1	1	24	30.51	90 3 21.9	21	8.0		19	37.11	44	54.6
21	10.2		24	30.61	3 22.1	22	8.0		19	37.05	44	54.6
						23	8.3		19	36.95	44	54.0
<b>26</b>					<i>99 Piscium <math>\eta</math></i>	<b>33</b>						<i>73 Ceti <math>\xi^2</math></i>
Dec. 13		1	24	44.53	75 18 17.7 M	Jan. 1		2	21	27.63	82	6 20.1
<b>27</b>					<i>106 Piscium <math>\nu</math></i>	8			21	27.66	6	18.9
Nov. 18		1	34	52.53	85 8 59.3	Dec. 22			21	27.75	6	22.0
Dec. 18			34	52.63	9 2.4	<b>34</b>						<i>R. P. L. 26.'</i>
16			34	52.55	9 2.2	Oct. 28		25	5.65	7	3	30 12.8
<b>28</b>					<i>6 Arietis <math>\beta</math></i>	Dec. 15		25	5.98	3	30	13.0
Nov. 18		47	40.91	...	69 48 29.3	16		25	5.49	3	30	14.0
Dec. 13		47	40.91	...	48 31.3	17		25	6.22	3	30	18.3
15		47	40.91	...	48 31.4	18		25	6.34	3	30	18.4
16		47	40.82	...	48 31.2	19		25	5.52	3	30	12.4
17		47	40.93	...	48 31.7	<b>35</b>						<i>86 Ceti <math>\gamma</math></i>
18		47	40.94	...	48 31.9	Jan. 6	...	36	46.39	...	87	17 45.8
19		47	40.99	...	48 29.9	7	...	36	46.39	...	17	45.5
<b>29</b>					<i>Anon.</i>	8	...	36	46.41	...	17	44.3
Jan. 7	9.9	6	24.47	...	151 21 11.0 M	9	...	36	46.31	...	17	44.2
		6	24.60	...	21 6.9 M	10	...	36	46.29	...	17	46.0
<b>30</b>					<i>Anon.</i>	12	...	36	46.40	...	17	45.4
Oct. 30	10.1	2	7	6.42	87 9 39.5	14	...	36	46.33	...	17	42.4
Nov. 4	10.1		7	6.35	9 42.2	15	...	36	46.46	...	17	45.8
<b>31</b>					<i>67 Ceti.</i>	16	...	36	46.39	...	17	44.8
Dec. 8		2	10	42.03	97 0 12.8 M	17	...	36	46.39	...	17	46.5
<b>32</b>					<i>R Ceti, Var. 2.</i>	19	...	36	46.24	...	17	46.9
Jan. 9	7.9	2	19	37.30	90 44 50.7	20	...	36	46.21	...	17	45.4
14	8.0		19	37.19	44 51.1	21	...	36	46.47	...	17	47.0
15	8.0		19	37.30	44 53.7	23	...	36	46.25	...	17	46.1
16	8.0		19	37.17	44 53.1	Dec. 8	...	36	46.33	...	17	47.6
17	8.0		19	37.24	44 54.5	25	...	36	46.40	...	17	47.4
19	8.0		19	37.22	44 53.9	28	...	36	46.30	...	17	44.9
<b>36</b>					<i>92 Ceti <math>\alpha</math>, Menkar.</i>							
Jan. 14		2	55	41.50	86 24 18.7							
15			55	41.55	24 20.2							
16			55	41.52	24 19.4							
17			55	41.56	24 20.2							

*Separate Results of Madras Meridian Circle Observations in 1874.*

Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.														
		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>				<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>															
Jan. 19	...	2	55	41.61	...	86	24	21.3	M	<b>44</b> <i>R Persei, Var. 3.</i>																							
20	...		55	41.48	...		24	20.5	M	Dec. 7	9.3	3	22	2.36	...	54	45	54.1	M														
21	...		55	41.59	...		24	20.6	M	15	8.5		22	2.13	...		45	54.0	M														
23	...		55	41.43	...		24	20.5	M	17	8.6		22	2.31	...		45	54.2	M														
Dec. 22	...		55	41.72	...		24	22.8	M	18	8.3		22	2.21	...		45	54.7	M														
25	...		55	41.64	...		24	21.8	M	19	8.3		22	2.12	...		45	53.9	M														
28	...		55	41.64	...		24	21.4	R	28	8.6		22	2.13	...		45	53.3	R														
<b>37</b> <i>57 Arietis δ</i>																																	
Jan. 5	...	3	4	25.61	...	70	45	4.9	M	<b>45</b> <i>R. P. L. 34.</i>																							
22	...		4	25.58	...		45	7.0	M	Jan. 1	...	3	25	24.64	3	3	45	17.6	M														
Dec. 22	...		4	25.55	...		45	6.9	M	14	...		25	24.28	2		45	17.1	M														
28	...		4	25.63	...		45	7.0	R	Dec. 5	...		25	25.39	2		45	17.2	M														
																				25	...		25	22.89	2		45	16.6	M				
<b>38</b> <i>33 Persei α</i>																				<b>46</b> <i>Anon.</i>													
Jan. 22	...	3	15	20.04	...	40	35	22.2	M	Jan. 8	10.2	3	33	59.31	6	128	28	9.9	M														
<b>39</b> <i>Anon.</i>																				<b>47</b> <i>25 Tauri η, Aleyone.</i>													
Jan. 9	9.5	3	15	46.37	...	125	39	11.9	M	Jan. 3	...	3	39	59.67	...	66	17	10.4	M														
<b>40</b> <i>Anon.</i>																				5	...		39	59.83	...		17	10.5	M				
Jan. 12	9.6	3	17	14.02	...	127	4	50.1	M	6	...		39	59.79	...		17	10.9	M														
15	9.5		17	13.91	...		4	49.3	M	10	...		39	59.85	...		17	9.5	M														
<b>41</b> <i>Anon.</i>																				12	...		39	59.72	...		17	10.5	M				
Jan. 16	8.8	3	17	42.12	...	130	43	28.4	M	23	...		39	59.76	...		17	10.4	M														
<b>42</b> <i>1 Tauri α, Var. 5.</i>																				24	...		39	59.64	...		17	12.9	M				
Jan. 3	5.5	3	18	2.05	...	81	24	56.5	M	26	...		39	59.95	...		17	13.7	M														
5	5.7		18	1.84	...		24	57.9	M	28	...		39	59.86	3		17	11.3	R														
6	5.8		18	2.06	...		24	57.8	M	29	...		39	59.85	...		17	10.2	R														
7	5.7		18	1.87	...		24	57.3	M	Dec. 25	...		39	59.75	...		17	10.6	M														
8	5.7		18	1.95	3		24	56.0	M	<b>48</b> <i>34 Eridani γ<sup>1</sup></i>																							
<b>43</b> <i>Anon.</i>																				Jan. 3	...	3	52	9.11	...	103	52	4.0	M				
Jan. 29	9.4	3	21	17.16	...	54	45	40.9	M	5	...		52	8.98	...		52	5.3	M														
																				6	...		52	8.99	...		52	5.9	M				
																				9	...		52	9.06	...		52	6.6	M				
																				10	...		52	9.03	...		52	6.5	M				
																				12	...		52	9.05	...		52	5.1	M				
																				13	...		52	9.25	...		52	7.3	R				
																				14	...		52	9.17	...		52	4.2	M				
																				15	...		52	8.98	...		52	5.3	M				
																				16	...		52	9.07	...		52	5.1	M				

*Separate Results of Madras Meridian Circle Observations in 1874.*

Number and Date.	Mean Right Ascension 1874. <i>h. m. s.</i>	Mean Polar Distance 1874.	Number and Date.	Mean Right Ascension 1874. <i>Mi h. m. s.</i>	Mean Polar Distance 1874.
Jan. 17	52 9.06	103 52 5.6	<b>53</b>	<i>87 Tauri a, Aldebaran.</i>	
19	52 9.18	52 6.3	Jan. 21	28 41.35	73 44 47.8
20	52 8.97	52 6.4	22	28 41.58	44 45.6
21	52 8.95	52 6.6	23	28 41.48	44 46.1
24	52 8.90	52 6.1	24	28 41.63	44 44.7
26	52 8.94	52 6.1	30	28 41.21	44 45.3
27	52 9.05	52 6.5	31	28 41.61	44 44.5
28	52 9.05	52 7.8	Feb. 5	28 41.58	44 48.4
29	52 8.96	52 6.4	6	28 41.45	44 46.8
31	52 8.82	52. 6.1	7	28 41.55	44 46.8
			Dec. 22	28 41.47	44 48.4
<b>49</b>	<i>R. P. L. 35.</i>		<b>54</b>	<i>Lacaille 1551—2nd.</i>	
Dec. 28	3 57 42.54	3 4 46 48.4	Jan. 13	9.5 4 32 20.27	153 9.7 R
<b>50</b>	<i>38 Eridani o<sup>1</sup></i>		<b>55</b>	<i>Anon.</i>	
Jan. 1	5 42.90	97 10 4.9	1 9.5 4 34 31.90	130 50 22.9	M
7	5 42.79	10 3.3	3 9.9 34 32.05	50 18.6	M
9	5 42.88	10 3.3	5 9.5 34 31.95	50 22.0	M
13	5 42.92	10 5.6			
22	5 42.94	10 4.7			
	5 42.75	10 4.9			
27	5 42.91	10 2.2			
28	5 42.88	6 10 3.4	<b>56</b>	<i>Anon.</i>	
30	5 42.99	10 3.6	Jan. 15	9.9 4 34 43.67	153 25 37.2 M
31	5 43.01	10 2.9			
Feb. 3	5 43.03	10 3.5	<b>57</b>	<i>Anon.</i>	
			Jan. 16	9.8 4 39 19.30	153 14 48.7
			17	9.7 39 19.29	14 45.8
<b>51</b>	<i>74 Tauri e</i>		<b>58</b>	<i>3 Aurigæ</i>	
Jan. 1	4 21 15.60	71 6 4.7	Jan. 7	4 48 47.43	57 2 9.6
3	21 15.63	6 3.1	20	48 47.48	2 7.3
8	21 15.54	6 4.4	21	48 47.55	2 8.0
26	21 15.74	6 4.7	22	48 47.36	2 6.9
27	21 15.71	6 2.2	23	48 47.53	2 8.9
Feb. 2	21 15.75	6 3.6	24	48 47.60	2 7.5
3	21 15.52	6 4.9	27	48 47.20	2 9.1
4	21 15.62	6 5.2	28	48 47.29	2 9.2
5	21 15.65	6 4.1	30	48 47.38	2 7.2
6	21 15.58	6 3.0	31	48 47.34	2 8.3
			Feb. 2	48 47.36	2 8.1
			7	48 47.30	2 7.6
<b>52</b>	<i>Anon.</i>				
Jan. 12	10.4 4 22 35.77	80 26 47.6 M			

*Separate Results of Madras Meridian Circle Observations in 1874.*

Number and Date.	Magnitude.	Mean Right Ascension 1874.	No. of Wires.	Mean Polar Distance 1874.	Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1874.	No. of Wires.	Mean Polar Distance 1874.	Observer.
		<i>h. m. s.</i>		<i>° ' "</i>				<i>h. m. s.</i>		<i>° ' "</i>	
Feb. 9	...	4 48 47.26	...	57 2 9.1	R	Jan. 22	...	5 18 19.89	...	61 30 4.9	R
10	...	48 47.38	...	2 8.8	R	23	...	18 19.73	...	30 2.4	R
11	...	48 47.33	...	2 9.6	R	24	...	18 19.81	...	30 4.6	R
14	...	48 47.52	...	2 10.9	R	29	...	18 19.81	...	30 5.0	R
Dec. 22	...	48 47.30	...	2 10.0	R	Feb. 2	...	18 19.67	...	30 3.5	R
<b>59</b> <i>2 Leporis ε</i>						3	...	18 19.56	...	30 3.5	R
Jan. 13	...	5 0 7.40	...	112 32 31.4	R	4	...	18 19.55	...	30 5.4	R
20	...	0 7.71	...	32 31.4	R	5	...	18 19.54	...	30 5.1	R
23	...	0 7.60	...	32 28.5	R	7	...	18 19.66	...	30 6.0	R
24	...	0 7.59	...	32 28.6	R	10	...	18 19.59	...	30 5.8	R
29	...	0 7.52	...	32 32.0	R	11	...	18 19.69	...	30 6.0	R
30	...	0 7.78	...	32 28.9	R	12	...	18 19.74	...	30 6.8	R
Feb. 3	...	0 7.66	...	32 32.1	R	14	...	18 19.77	...	30 5.9	R
4	...	0 7.49	...	32 30.7	R	19	...	18 19.82	...	30 5.6	R
6	...	0 7.72	...	32 31.5	R	20	...	18 19.71	...	30 5.4	R
9	...	0 7.60	...	32 28.6	R	21	...	18 19.66	...	30 5.4	R
11	...	0 7.68	...	32 29.4	R	<b>63</b> <i>Anon.</i>					
12	...	0 7.53	...	32 29.5	R	Jan. 12	9.8	5 20 4.17	...	129 43 34.7	M
13	...	0 7.62	...	32 29.7	R	13	10.3	20 4.11	4	43 34.3	R
14	...	0 7.50	...	32 30.1	R	14	10.1	20 4.29	6	43 35.3	M
16	...	0 7.59	...	32 29.7	R	<b>64</b> <i>R. P. L. 40—s.p.</i>					
18	...	0 7.69	...	32 30.4	R	July 15	...	5 21 50.14	3	4 52 30.3	R
<b>60</b> <i>13 Aurigæ α, Capella.</i>						<b>65</b> <i>34 Orionis δ, Var. 1.</i>					
Jan. 22	...	5 7 22.85	...	44 7 59.0	R	Feb. 23	...	5 25 34.15	...	90 23 37.1	R
<b>61</b> <i>19 Orionis β, Rigel.</i>						24	...	25 34.16	...	23 38.0	R
Jan. 21	...	5 8 28.92	...	98 20 55.3	R	<b>66</b> <i>11 Leporis α</i>					
Feb. 2	...	8 28.88	...	20 55.2	R	Feb. 14	...	5 27 10.20	...	107 54 51.8	R
6	...	8 28.94	...	20 55.6	R	19	...	27 10.34	...	54 50.3	R
10	...	8 29.06	...	20 53.9	R	20	...	27 10.40	...	54 50.5	R
13	...	8 28.89	...	20 56.0	R	21	...	27 10.34	...	54 49.7	R
16	...	8 28.89	...	20 55.6	R	<b>67</b> <i>46 Orionis ε</i>					
18	...	8 28.99	...	20 55.5	R	Feb. 4	...	5 29 49.40	...	91 17 2.0	R
19	...	8 29.02	...	20 54.2	R	5	...	29 49.23	...	17 2.7	R
20	...	8 28.96	...	20 56.6	R	7	...	29 49.24	...	17 2.4	R
<b>62</b> <i>112 Tauri β.</i>						9	...	29 49.35	...	17 1.5	R
Jan. 20	...	5 18 19.84	...	61 30 5.2	R	10	...	29 49.16	...	17 2.2	R
21	...	18 19.72	...	30 6.4	R						

*Separate Results of Madras Meridian Circle Observations in 1874.*

Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.	Number and Date.	Mean Right Ascension 1874.			Mean Polar Distance 1874.	
		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>			<i>h.</i>	<i>m.</i>	<i>s.</i>		
Feb. 11	...	5	29	49.17	...	91	17	2.8	R	<b>73</b>	<i>Anon.</i>				
12	..		29	49.24	...		17	4.2	R	Jan. 23	9.7	5	52	29.04	141 46 0.1
13	...		29	49.14	...		17	2.1	R	<b>74</b>	<i>Anon.</i>				
18	...		29	49.13	...		17	2.4	R	Jan. 24	9.6	5	54	50.49	137. 45 13.2
<b>68</b>		<i>R. P. L. 42.</i>													
Jan. 5		31	55.53	3		41	11.7	M		<b>75</b>	<i>Anon.</i>				
15		31	56.02	3		41	12.8	M		Jan. 5	9.5	5	55	9.19	121 31 0.1 M
16		31	56.55	3		41	12.5	M		<b>76</b>	<i>R. P. L. 43.</i>				
17		31	55.96	3		41	13.9	M		Jan. 27	5	56	26.91	3	3 14 16.7
19		31	55.92	3		41	11.6	M		29		56	27.03	7	14 15.0
20		31	55.20	3		41	11.9	M		30		56	27.13	7	14 17.2
21		31	54.87	3		41	12.1	M		31		56	28.85	7	14 16.0
23		31	55.26	2		41	13.8	M		Feb. 2		56	27.89	3	14 15.6
24		31	55.35	3		41	14.4	M							
26		31	56.13	3		41	13.4	M							
<b>69</b>		<i>α Columbae.</i>													
Dec. 26		5	35	5.14		124	8	31.6	R						
<b>70</b>		<i>58 Orionis α</i>													
Feb. 9		5	48	20.96	...	82	37	6.1		July 2		56	27.10	3	3 14 16.8
12			48	20.98	...		37	6.2		20		56	27.54	3	14 16.8
13			48	21.08	...		37	4.8		Aug. 28		56	27.96	3	14 17.6
16			48	21.09	...		37	4.4		29		56	28.23	3	14 18.2
18			48	20.94	...		37	6.4		<b>77</b>	<i>Anon.</i>				
19			48	20.90	...		37	4.6		Feb. 5	9.0	0	13.74		121 34 34.4
20			48	21.01	...		37	6.3		7	9.3	0	13.58		34 34.8
21			48	20.91	...		37	5.5		9	9.4	0	13.40		34 33.0
23			48	20.97	...		37	3.9		<b>78</b>	<i>67 Orionis ν</i>				
24			48	20.97	...		37	6.6		Feb. 21			22.88		13 6.5
25			48	20.90	...		37	6.2		23			22.77		13 6.7
26			48	21.00	...		37	5.3		24			22.76		13 6.5
Dec. 26			48	21.07	...		37	7.5		25			22.77		13 7.9
<b>71</b>		<i>Anon.</i>													
Jan. 13	10.2	5	50	30.26	5	137	10	12.5		27			22.60		13 6.2
19	10.4		50	30.27	...		10	12.7		28			22.65		13 7.6
<b>72</b>		<i>Anon.</i>													
Jan. 8	9.7	5	52	4.50	...	140	36	32.5		<b>79</b>	<i>Lalande 12072—1st.</i>				
9	9.6		52	4.51	...		36	31.0		Dec. 15	7.6	13	59.96		68 51 28.1
14	9.5		52	4.83	...		36	30.7		18	7.6	13	59.65		51 27.9
										19	7.6	13	59.71		51 26.5

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Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.
		h.	m.	s.		°	'	"				h.	m.	s.		°	'	"	
<b>80</b> 13 <i>Geminorum</i> $\mu$										<b>87</b> 23 <i>Canis Majoris</i> $\gamma$									
Feb. 23	...	6	15	20.27	...	67	25	27.0	R	Feb. 27	...	6	58	3.54	...	105	26	55.9	R
24	...	15	20.27	..	...	25	26.8	..	R	28	...	58	3.53	...	...	26	54.8	R	R
25	..	15	20.30	...	...	25	24.7	..	R	Mar. 5	...	58	3.51	...	...	26	55.1	M	M
26	...	15	20.27	...	...	25	26.5	..	R	12	...	58	3.39	...	...	26	54.3	R	R
28	...	15	20.25	..	...	25	27.7	..	R	14	...	58	3.53	...	...	26	54.0	R	R
Dec. 26	..	15	20.17	...	...	25	27.1	..	R	16	...	58	3.47	...	...	26	55.7	R	R
<b>81</b> 24 <i>Geminorum</i> $\gamma$										<b>88</b> * <i>R Canis Minoris</i> , Var. 1.									
Feb. 27	..	6	30	26.07	...	73	29	43.6	R	Jan. 16	8.2	7	1	46.71	...	79	46	45.2	M
<b>82</b> Bonn + 8°. 1429.										<b>89</b> Bonn + 38°. 1778.									
Feb. 3	9.0	6	32	22.71	...	81	7	26.6	R	Feb. 14	9.6	7	24	5.96	...	51	58	41.3	R
5	9.0	32	22.88	...	...	7	28.9	..	R	18	9.6	24	5.93	..	...	58	37.4	R	R
6	9.0	32	22.79	...	...	7	29.6	..	R	19	9.7	24	5.88	..	...	58	37.6	R	R
Mar. 6	9.7	32	22.63	...	...	7	28.8	M	M	20	9.6	24	5.74	..	...	58	37.9	R	R
7	9.5	32	22.98	...	...	7	27.7	R	R	<b>90</b> Anon.									
<b>83</b> 9 <i>Canis Majoris</i> $\alpha$ , <i>Sirius</i> .										Feb. 21	10.5	7	24	12.22	...	41	55	52.6	R
Feb. 27	...	6	39	35.58	...	106	32	44.5	R	24	10.5	24	12.02	...	...	55	54.6	R	R
<b>84</b> 51 <i>Cephei</i> ( <i>Hev.</i> )—s.p.										25	10.5	24	12.30	...	...	55	53.1	R	R
July 30	...	6	40	45.24	3	2	45	52.6	R	26	10.6	24	12.19	...	...	55	55.2	R	R
Aug. 3	...	40	44.69	2	...	45	53.7	M	M	<b>91</b> Bonn + 48°. 1546.									
<b>85</b> Anon.										Jan. 27	9.7	7	24	17.44	4	42	2	0.0	R
Feb. 24	8.6	6	42	56.76	..	130	36	59.5	R	29	9.7	24	17.57	4	...	1	59.7	R	R
Mar. 3	8.4	42	56.77	...	...	36	58.0	M	M	31	9.7	24	17.32	6	...	1	59.0	R	R
4	8.5	42	56.53	...	...	36	59.3	M	M	Feb. 2	9.6	24	17.69	...	...	1	57.5	R	R
5	8.4	42	56.58	...	...	36	59.3	M	M	<b>92</b> 66 <i>Geminorum</i> $\alpha^1$ , <i>Castor</i> .									
9	8.5	42	56.49	...	...	37	0.5	M	M	Mar. 6	...	7	26	33.38	...	57	50	16.8	M
<b>86</b> 21 <i>Canis Majoris</i> $\epsilon$										9	...	26	33.15	...	...	50	19.2	M	M
Mar. 13	...	6	53	40.47	..	118	48	5.8	R	10	...	26	33.10	...	...	50	18.8	M	M
										11	...	26	33.16	...	...	50	18.1	M	M
										12	...	26	33.28	...	...	50	20.0	R	R
										13	...	26	33.17	..	...	50	18.5	R	R
										14	...	26	33.36	...	...	50	19.2	R	R
										16	...	26	33.29	..	...	50	19.2	R	R
										17	...	26	33.19	...	...	50	19.1	R	R
										19	...	26	33.10	...	...	50	18.1	R	R



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Number and Date.	Magnitude.	Mean Right Ascension 1874.			W.	Mean Polar Distance 1874.			Number and Date.	Mean Right Ascension 1874.			Mean Polar Distance 1874.	
		h.	m.	s.		h.	m.	s.		h.	m.	s.		
<b>106</b> <i>R. P. L. 49.</i>														
Feb. 7		7	46	28.15		5	35	10.1	Mar. 20	7.6	7	52	3.51	130 24 6.6
9			46	30.30			35	10.3	23	7.6		52	3.65	24 4.5
									25	7.9		52	3.75	24 4.7
									28	7.5		52	3.50	24 3.2
<i>R. P. L. 49—s.p.</i>														
Sep. 10		7	46	28.65	3	5	35	10.9	<b>112</b> <i>Anon.</i>					
16			46	27.90	3		35	9.1	Mar. 21	10.0	7	52	17.84	4 151 42 5.0
17			46	27.29	3		35	11.3	<b>113</b> <i>Anon.</i>					
26			46	27.57	3		35	12.5	Jan. 29	8.5	7	53	8.15	142 43 16.9
Oct. 5			46	28.87	2		35	10.3	Feb. 3	8.3		53	8.54	43 16.8
7			46	29.29	2		35	11.3	<b>114</b> <i>6 Caneri.</i>					
12			46	29.14	3		35	10.4	Feb. 26		7	55	46.77	61 51 16.3
15			46	28.24	3		35	9.3	Mar. 17			55	46.51	51 16.7
17			46	29.85	2		35	10.3	<b>115</b> <i>Anon.</i>					
<b>107</b> <i>Brisbane 1791.</i>														
Mar. 3	8.4	7	46	32.69	..	144	26	9.4	M	<b>116</b> <i>Anon.</i>				
<b>108</b> <i>Anon.</i>														
Mar. 4	8.9	7	50	4.62		130	23	33.0	Feb. 25	10.0	8	0	42.78	78 29 30.5 R
13	9.0		50	4.88			23	33.3	<b>117</b> <i>Anon.</i>					
14	9.0		50	4.76			23	33.6	Feb. 5	9.3	8	1	40.50	69 5 41.0
16	9.0		50	4.77			23	35.6	6	9.3		1	40.49	5 41.2
17	9.0		50	4.61			23	34.6	10	9.0		1	40.88	5 45.1
<b>109</b> <i>Anon.</i>														
Mar. 7	8.9	7	50	47.40	...	129	24	14.6	<b>118</b> <i>15 Argus.</i>					
10	8.5		50	47.46	...		24	13.3	Mar. 9		2	10.63	113 56 33.4	
11	8.5		50	47.14	...		24	13.7	10		2	10.59	56 32.1	
12	8.6		50	47.33	...		24	13.7	13		2	10.67	56 32.6	
<b>110</b> <i>Anon.</i>														
Mar. 19	9.4	7	51	47.85	...	151	38	29.2	14		2	10.64	56 32.8	
24	9.6		51	47.89	..		38	29.4	16		2	10.72	56 33.0	
27	9.5		51	47.96	...		38	28.5	20		2	10.54	56 32.1	
30	9.6		51	48.09	...		38	28.6	23		2	10.54	56 32.7	



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		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>o.</i>	<i>'</i>	<i>"</i>				<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>o.</i>	<i>'</i>	<i>"</i>	
<b>119</b> <i>Anon.</i>										<b>127</b> <i>11 Hydræ ε</i>									
Jan. 30	9.3	8	11	2.28	5	77	39	35.2	R	Mar. 4	...	8	40	6.19	...	83	7	13.4	M
										6	...	40	6.25	...			7	12.2	M
										7	...	40	6.23	...			7	12.8	R
										9	...	40	6.16	...			7	13.2	M
										10	...	40	6.06	...			7	13.1	M
										12	...	40	6.22	...			7	13.1	R
										17	...	40	6.23	...			7	10.9	R
										24	...	40	6.11	...			7	11.5	R
										25	...	40	6.23	...			7	12.4	R
										28	...	40	6.06	...			7	12.2	R
										Apl. 1	...	40	6.11	...			7	11.1	M
										4	...	40	5.91	...			7	11.7	R
										8	...	40	6.16	...			7	14.2	R
<b>120</b> <i>Anon.</i>										<b>128</b> <i>R. P. L. 60.</i>									
Feb. 16	9.4	8	13	18.74	...	130	47	24.1	R	Feb. 20	...	8	48	41.55	3	5	19	7.7	R
18	9.5	13	18.45	...		47	25.2	R	28	...	48	41.08	3		19	8.2	R		
<b>121</b> <i>Anon.</i>										<i>R. P. L. 60—s.p.</i>									
Feb. 25	9.3	8	13	41.75	...	131	43	0.1	R	Sep. 2	...	8	48	40.25	3	5	19	6.9	R
<b>122</b> <i>Anon.</i>										4	...	48	40.37	7		19	9.3	R	
Mar. 21	9.3	8	13	48.14	...	131	44	48.9	R	5	...	48	40.15	3		19	8.7	R	
23	9.6	13	48.09	...		44	52.4	R	<b>129</b> <i>Anon.</i>										
24	9.5	13	48.08	...		44	52.1	R	Mar. 5	8.7	8	54	19.21	...	132	57	54.4	M	
25	9.8	13	48.16	...		44	51.9	R	<b>130</b> <i>82 Cancri π<sup>2</sup></i>										
<b>123</b> <i>33 Cancri η</i>										Feb. 27	7.2	9	8	16.60	...	74	32	16.6	R
Mar. 9	...	8	25	25.23	...	69	7	57.9	M	<b>131</b> <i>Anon.</i>									
10	...	25	25.35	...		7	56.7	M	Feb. 12	9.5	9	11	28.19	...	70	43	16.3	R	
11	...	25	25.20	...		7	55.4	M	13	9.6	11	28.27	...		43	14.0	R		
24	...	25	25.11	...		7	55.9	R	<b>132</b> <i>83 Cancri.</i>										
28	...	25	25.26	...		7	57.6	R	Mar. 7	...	9	11	56.72	...	71	45	43.2	R	
30	...	25	25.26	...		7	57.4	R	20	...	11	56.92	...		45	41.4	R		
31	...	25	25.20	...		7	56.7	R	21	...	11	56.72	...		45	42.0	R		
<b>124</b> <i>Anon.</i>										Apl. 1	...	11	56.78	...		45	42.3	M	
Feb. 7	9.3	8	26	11.45	...	61	49	42.5	R	6	...	11	56.86	...		45	43.5	R	
13	9.9	26	11.60	...		49	44.1	R	11	...	11	56.78	...		45	43.0	R		
14	10.0	26	11.68	...		49	40.6	R	<b>125</b> <i>Anon.</i>										
<b>125</b> <i>Anon.</i>										Feb. 19	9.0	8	29	22.18	...	70	42	41.6	R
<b>126</b> <i>Taylor 3710.</i>										<b>127</b> <i>11 Hydræ ε</i>									
Feb. 25	8.0	8	31	41.68	...	141	23	7.6	R	Mar. 4	...	8	40	6.19	...	83	7	13.4	M

*Separate Results of Madras Meridian Circle Observations in 1874.*

Number and Date.	Mean Right Ascension 1874.				Mean Polar Distance 1874.			
	h.	m.	s.		h.	m.	s.	

**133** *Anon.*

Feb. 16	9.8	9	13	29.76	...	70	34	39.7	R
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**134** *Anon.*

Feb. 20	9.4	9	16	38.64	139	3	31.3	
21	9.4		16	38.39		3	33.9	
23	9.4		16	38.46		3	32.8	

**135** *Anon.*

Feb. 11	7.8	9	20	2.21	75	9	3.8	R
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**136** *Anon.*

Feb. 19	8.7	9	20	8.68	...	125	23	44.2	R
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**137** *Anon.*

Feb. 25	8.3	9	20	46.13	137	30	29.9	
26	8.5		20	46.01		30	30.6	

**138** *Anon.*

Feb. 27	8.4	9	20	51.93	...	125	25	31.8	R
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**139** *Anon.*

Feb. 28	9.0	9	21	0.19	158	40	48.1	
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**140** *30 Hydræ α, Var. 2.*

Mar. 16	...	9	21	23.70	98	6	49.1	
19	...		21	23.69		6	47.3	
20	...		21	23.70		6	47.3	
27	...		21	23.66		6	47.0	
30	...		21	23.61		6	48.5	
31	...		21	23.64		6	49.4	
Apl. 1	...		21	23.70		6	48.4	
6	...		21	23.59		6	50.0	
13	...		21	23.69		6	47.5	
16	...		21	23.69		6	48.5	
20	...		21	23.65		6	46.0	

Number and Date.	Mean Right Ascension 1874.				Mean Polar Distance 1874.			
	h.	m.	s.		h.	m.	s.	

**141** *25 Ursæ Majoris θ*

Mar. 3	9	24	25.17	37	44	54.9
4		24	25.22		44	58.0

**142** *Anon.*

Feb. 21	9.4	9	24	29.78	...	158	43	22.3	R
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**143** *R. P. L. 69.*

Feb. 10	9	36	5.68	2	49	29.1
		36	5.19		49	31.8

*R. P. L. 69—s.p.*

Sep. 14		5.22	2	
21	36	4.47	3	49 30.2
Oct. 16	36	4.92	3	49 31.5
17	36	4.80	2	49 31.9
31	36	6.42	3	49 31.1
Nov. 4	36	4.11	3	49 31.3

**144** *17 Leonis ε*

Mar. 19	...	9	38	41.83	...	65	38	48.1
21	...		38	41.84	...		38	48.6
23	...		38	41.85	...		38	50.3
25	...		38	41.86	...		38	49.0
27	...		38	41.73	...		38	49.6
Apl. 4	...		38	41.56	...		38	50.8
9	...		38	41.79	...		38	50.0
11	...		38	41.74	...		38	49.4
15	...		38	41.80	...		38	48.9
23	...		38	41.69	...		38	47.9

**145** *Anon.*

Feb. 20	9.5	9	44	28.23	...	148	32	41.0	R
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**146** *R. P. L. 70—s.p.*

Aug. 24	9	48	4.93	3	5	28	39.2
Oct. 16		48	5.67	8		28	39.8
31		48	7.93	3		28	38.5
Nov. 4		48	6.56	3		28	39.2

*Separate Results of Madras Meridian Circle Observations in 1874.*

Number and Date.	Mean Right Ascension 1874.	Mean Polar Distance 1874.	Number and Date.	Magnitude.	Mean Right Ascension 1874.	No. of Wires.	Mean Polar Distance 1874.	Observer.
M.					h. m. s.		° ' "	
<b>147</b>	<i>Anon.</i>			<b>154</b>	<i>Anon.</i>			
Mar. 13	9.8	9 48 50.71	...	152	10	28.6	R	
<b>148</b>	<i>W. B. N. IX. 1020.</i>			Mar. 19	10.1	9 55 41.31	...	72 20 50.9
Feb. 23	9.0	9 49 0.54	...	71	51	41.7	R	
<b>149</b>	<i>W. B. N. IX. 1047.</i>			20	10.1	55 41.11	...	20 51.1
Feb. 11	8.8	9 50 5.62	...	72	20	46.0		
12	8.9	50 5.65	...	20	45.9			
<b>150</b>	<i>Anon.</i>			<b>155</b>	<i>Anon.</i>			
Feb. 24	9.6	9 51 8.53	...	74	33	32.6		
25	9.7	51 8.76	...	33	31.2			
Mar. 7	9.7	51 8.55	...	33	29.0			
12	9.6	51 8.71	...	33	31.8			
14	9.7	51 8.59	...	33	33.6			
16		51 8.69	...	33	33.8			
17	9.7	51 8.63	...	33	33.0			
<b>151</b>	<i>Anon.</i>			<b>156</b>	<i>W. B. N. IX. 1189.</i>			
Feb. 19	9.6	9 52 48.97	...	72	4	26.6	R	
<b>152</b>	<i>29 Leonis π</i>			Mar. 3	9.7	9 57 0.31	...	73 10 31.2
Mar. 24	9 53 33.31	...	81	21	6.8			M
31	53 33.25	...	21	8.7				M
Apl. 8	53 33.25	...	21	9.3				M
9	53 33.25	...	21	8.3				M
14	53 33.19	...	21	6.0				M
16	53 33.24	...	21	7.3				
21	53 33.16	...	21	8.3				
<b>153</b>	<i>W. B. N. IX. 1160.</i>			<b>157</b>	<i>Anon.</i>			
Feb. 21	8.9	9 55 39.48	...	73	20	34.1		
23	9.0	55 39.69	...	20	31.6			
25	9.0	55 39.69	...	20	32.9			
26	9.0	55 39.61	...	20	32.5			
<b>154</b>	<i>Anon.</i>			<b>158</b>	<i>W. B. N. IX. 1230.</i>			
Mar. 19	10.1	9 55 41.31	...	72	55	23.3		
20	10.1	55 41.11	...	55	24.0			
21	10.1	55 41.12	...	55	25.6			
23	10.0	55 41.25	...	55	24.3			
27	10.0	55 41.19	...	55	24.3			
<b>155</b>	<i>Anon.</i>			<b>159</b>	<i>Anon.</i>			
Feb. 23	9.9	9 56 23.40	...	130	0	17.2	R	
<b>156</b>	<i>W. B. N. IX. 1189.</i>			Mar. 2	9.0	9 58 30.69	...	143 56 59.5
Mar. 3	9.7	9 57 0.31	...	73	10	31.2	M	
4	9.7	57 0.40	...	10	31.8	M		
6	9.6	57 0.31	...	10	31.3	M		
10	9.6	57 0.27	...	10	31.9	M		
<b>157</b>	<i>Anon.</i>			<b>160</b>	<i>14 Sextantis.</i>			
Mar. 30.	9.0	9 58 8.66	...	145	35	55.7	R	
<b>158</b>	<i>W. B. N. IX. 1230.</i>			Feb. 26	6.5	10 0 12.10	...	83 46 29.2
Mar. 11	9.6	9 58 25.55	...	72	55	23.3		
24	9.5	58 25.74	...	55	24.0			
25	9.8	58 25.77	...	55	25.6			
27	9.4	58 25.72	...	55	24.3			
<b>159</b>	<i>Anon.</i>			<b>161</b>	<i>W. B. N. IX. 1282.</i>			
Mar. 2	9.0	9 58 30.69	...	143	56	59.5		
17	8.8	58 30.41	...	56	59.6			
<b>160</b>	<i>14 Sextantis.</i>			Feb. 19	9.0	10 0 51.41	...	73 6 31.4
Feb. 26	6.5	10 0 12.10	...	83	46	29.2		
27	7.0	0 12.12	...	46	29.5			
28	7.5	0 12.22	...	46	26.6			
<b>161</b>	<i>W. B. N. IX. 1282.</i>							

*Separate Results of Madras Meridian Circle Observations in 1874.*

Number and Date.	Magnitude.	Mean Right Ascension 1874. h. m. s.	No. of Wires.	Mean Polar Distance 1874. ° ' "	Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1874. h. m. s.	No. of Wires.	Mean Polar Distance 1874. ° ' "	Observer.
<b>162</b> <i>32 Leonis α, Regulus.</i>						Apl. 17	...	10 42 38.00	...	78 47 17.4	R
Apl. 4	...	10 1 39.44	...	77 25 4.2	R	23	...	42 38.02	...	47 15.7	R
8	...	1 39.56	...	25 4.5	R	25	...	42 38.01	...	47 17.3	R
11	...	1 39.62	...	25 5.2	R	29	...	42 37.99	...	47 18.0	R
15	...	1 39.49	...	25 3.8	R	<b>168</b> <i>Anon.</i>					
20	...	1 39.66	...	25 2.6	M	Mar. 4	9.9	10 42 54.40	6	75 7 59.5	M
21	...	1 39.62	...	25 5.3	M	<b>169</b> <i>Anon.</i>					
22	...	1 39.66	...	25 6.0	R	Mar. 3	8.6	10 43 1.98	...	141 7 37.5	M
24	...	1 39.65	...	25 2.0	R	<b>170</b> <i>Anon.</i>					
<b>163</b> <i>33 Leonis</i>						Apl. 27	9.9	10 47 59.10	...	143 51 43.0	R
Feb. 27	8.5	10 3 53.69	...	73 40 30.1	R	29	10.3	47 58.89	...	51 47.0	R
<b>164</b> <i>R. P. L. 72.</i>						<b>171</b> <i>R Crateris, Var. 1.</i>					
Feb. 21	...	10 11 0.00	3	5 6 37.4	R	Mar. 16	9.0	10 54 21.74	...	107 38 57.3	R
23	...	10 58.92	3	6 34.5	R	19	9.0	54 21.63	...	38 56.3	R
24	...	10 59.05	3	6 34.0	R	<b>172</b> <i>Anon.</i>					
<b>165</b> <i>41 Leonis γ<sup>1</sup></i>						Mar. 14	9.1	10 54 31.66	...	107 41 27.6	R
Mar. 19	...	10 13 1.36	...	69 31 18.9	R	<b>173</b> <i>R. P. L. 79.</i>					
23	...	13 1.47	...	31 19.9	R	Mar. 6	...	10 58 3.67	3	1 40 34.4	M
Apl. 6	...	13 1.41	...	31 19.8	R	9	...	58 4.97	3	40 34.7	M
14	...	13 1.41	...	31 19.5	R	10	...	58 5.39	3	40 34.7	M
20	...	13 1.36	...	31 18.7	M	11	...	58 4.93	3	40 35.4	M
21	...	13 1.14	...	31 17.3	M	<i>R. P. L. 79—s.p.</i>					
24	...	13 1.29	...	31 17.3	R	Oct. 29	...	10 58 4.87	2	1 40 38.3	M
<b>166</b> <i>47 Leonis ρ</i>						Nov. 3	...	58 2.91	2	40 38.7	R
Apl. 9	...	10 26 10.53	...	80 2 41.9	R	<b>174</b> <i>63 Leonis χ</i>					
17	...	26 10.48	...	2 42.5	R	Mar. 21	...	10 58 30.97	...	81 58 58.3	R
22	...	26 10.54	...	2 45.4	R	30	...	58 30.97	...	58 59.4	R
25	...	26 10.46	...	2 42.9	R	Apl. 13	...	58 30.93	...	58 59.0	R
29	...	26 10.56	...	2 41.0	R	17	...	58 30.94	...	58 59.0	R
<b>167</b> <i>53 Leonis ι.</i>						27	...	58 31.21	...	59 0.2	R
Mar. 27	...	10 42 38.03	...	78 47 18.0	R						
Apl. 13	...	42 38.00	...	47 17.8	R						
14	...	42 37.97	...	47 17.9	R						
15	...	42 37.94	...	47 19.3	R						

*Separate Results of Madras Meridian Circle Observations in 1874.*

Number and Date.	Mean Right Ascension 1874.			Mean Polar Distance 1874.	Number and Date.	Magnitude.	Mean Right Ascension 1874.			W.	Mean Polar Distance 1874.
	h.	m.	s.				h.	m.	s.		
<b>175</b>	<i>Taylor 5092.</i>										
Mar. 4	8.8	11	5 45.09	143 52 23.5	Mar. 13	9.9	11	27 10.86	151 44 49.4		
5	8.6	5	45.39	52 23.6	14	9.8	27 10.74	44 52.5			
<b>176</b>	<i>Anon.</i>										
Mar. 16	9.9	11	6 12.26	83 53 41.3	<b>185</b>	<i>Anon.</i>					
					Mar. 16	10.0	11	27 14.88	23 20 52.6		
<b>177</b>	<i>68 Leonis <math>\delta</math></i>										
Apl. 16	11	7	24.26	68 47 11.8	<b>186</b>	<i>Anon.</i>					
22		7	24.28	47 11.1	Mar. 17	9.0	11	27 31.94	23 0 50.3	R	
27		7	24.25	47 10.8	19	9.2	27 31.77	0 48.2	R		
					20	...	27 32.02	0 49.9	R		
<b>178</b>	<i>73 Leonis <math>\eta</math>.</i>										
Mar. 6	6.0	11	9 16.21	74 0 19.0	<b>187</b>	<i>94 Leonis <math>\beta</math>, Deneb.</i>					
7	5.7		9 16.47	0 18.9	May 19	11	42 37.86	74 43 24.9	R		
9	6.0		9 16.22	0 20.3	<b>188</b>	<i>Bonn + 5°. 2550.</i>					
10	5.9		9 16.19	0 20.1	Mar. 12	9.6	11	44 38.12	84 48 10.8	R	
					13	9.9	44 38.08	48 8.1	R		
<b>179</b>	<i>Anon.</i>										
Mar. 12	9.9	11	9 55.24	145 58 31.1	<b>189</b>	<i>Groombridge 1830.</i>					
<b>180</b>	<i>Anon.</i>										
Mar. 14	11	10	59.45	141 11 51.7	Mar. 21	...	11	45 42.75	51 22 39.8	R	
16	10.0	10	59.51	11 51.2	23	7.5	45 43.00	22 40.2	R		
<b>181</b>	<i>12 Crateris <math>\delta</math></i>										
Apl. 16	11	13	2.58	104 5	25	7.7	45 42.96	22 40.4	R		
27		13	2.49	5 49.3	27	7.9	45 43.05	22 40.2	R		
<b>182</b>	<i>Anon.</i>										
Mar. 7	...	11	23 39.72	142 55 53.4	30	8.0	45 42.92	22 39.0	R		
<b>183</b>	<i>Cordoba 15790.</i>										
Mar. 10	8.7	11	27 3.95	151 7 24.6	<b>190</b>	<i>64 Ursæ Majoris <math>\gamma</math></i>					
12	8.7	27	4.15	7 21.4	Apl. 4	11	47 11.82	35 36 15.1	R		
<b>184</b>	<i>Anon.</i>										
Mar. 13	9.9	11	27 10.86	151 44 49.4	<b>191</b>	<i>Bonn + 4°. 2550.</i>					
14	9.8	27	10.74	44 52.5	Mar. 30	10.3	11	51 4.14	85 22 40.5	R	
<b>185</b>	<i>Anon.</i>										
Mar. 16	10.0	11	27 14.88	23 20 52.6	Apl. 4	10.0	51 3.80	22 40.1	R		
<b>186</b>	<i>Anon.</i>										
Mar. 17	9.0	11	27 31.94	23 0 50.3	6	10.1	51 4.02	22 40.7	R		
19	9.2	27	31.77	0 48.2	<b>192</b>	<i>R. P. L. 87.</i>					
20	...	27	32.02	0 49.9	Mar. 14	11	52 57.30	18 14.8			
<b>187</b>	<i>94 Leonis <math>\beta</math>, Deneb.</i>										
May 19	11	42	37.86	74 43 24.9	16	52 55.62	18 16.6				
<b>188</b>	<i>Bonn + 5°. 2550.</i>										
Mar. 12	9.6	11	44 38.12	84 48 10.8	17	52 55.97	18 13.0				
13	9.9	44	38.08	48 8.1	19	52 56.12	18 13.8				
<b>189</b>	<i>Groombridge 1830.</i>										
Mar. 21	...	11	45 42.75	51 22 39.8	20	52 56.11	18 15.3				
23	7.5	45	43.00	22 40.2							
25	7.7	45	42.96	22 40.4							
27	7.9	45	43.05	22 40.2							
30	8.0	45	42.92	22 39.0							
<b>190</b>	<i>64 Ursæ Majoris <math>\gamma</math></i>										
Apl. 4	11	47	11.82	35 36 15.1							
<b>191</b>	<i>Bonn + 4°. 2550.</i>										
Mar. 30	10.3	11	51 4.14	85 22 40.5							
Apl. 4	10.0	51	3.80	22 40.1							
6	10.1	51	4.02	22 40.7							
<b>192</b>	<i>R. P. L. 87.</i>										
Mar. 14	11	52	57.30	18 14.8							
16	52	55.62	18 16.6								
17	52	55.97	18 13.0								
19	52	56.12	18 13.8								
20	52	56.11	18 15.3								

*Separate Results of Madras Meridian Circle Observations in 1874.*

Number and Date.	Mean Right Ascension 1874.			Mean Polar Distance 1874.			Number and Date.	Mean Right Ascension. 1874.			Mean Polar Distance. 1874.							
	<i>h.</i>	<i>m.</i>	<i>s.</i>					<i>h.</i>	<i>m.</i>	<i>s.</i>								
<b>193</b> <i>R. P. L. 87—s.p.</i>																		
Nov. 20	11	52	59 80	2	2	18	14 0	R	Apl. 16	9 0	12	7	0 03	150	29	40 8	R	
21		52	59 79	3		18	14 9	R	17	9 0		6	59 87		29	38 8	R	
									23	9 1		6	59 98		29	40 3	R	
<b>194</b> <i>Bonn + 3°. 2592.</i>																		
Mar. 12	9 0	11	57	47 71	...	86	23	41 0	R	<b>202</b> <i>Anon.</i>								
<b>195</b> <i>R. P. L. 89—s.p.</i>																		
Oct. 30	11	58	23 62	3	3	42	54 2	M	Apl. 13	9 4	12	7	0 00	142	54	2 2	R	
									14	9 6		7	0 13		54	3 1	R	
									15	9 4		6	59 84		54	1 6	R	
<b>196</b> <i>W. B. E. XI. 986.</i>																		
Mar. 13	9 0	11	58	38 45	...	85	55	18 8	R	<b>203</b> <i>R. P. L. 90.</i>								
<b>197</b> <i>9 Virginis o</i>																		
Mar. 25		11	58	47 59	...	80	34	1 7	Mar. 21	...	12	7	17 14	3	2	22	1 0	
27	5 0		58	47 61	...		33	59 8	23	...		7	17 73	3		22	1 2	
Apl. 8	4 5		58	47 47	...		34	2 5	May 30	...		7	19 67	3		22	0 2	
<b>198</b> <i>2 Corvi e</i>																		
Apl. 24	...	12	3	38 94		111	55	6 4	<i>R. P. L. 90—s.p.</i>									
25	...		3	38 87			55	8 2	Oct. 10		12	7	17 8	2	2	22	4 0	
May 19	...		3	38 87			55	7 6	12			16 37	3		22	0 1		
21	...		3	38 74			55	6 7	Nov. 2			17 23	3		22	3 1		
23	...		3	38 82			55	7 9	12			19 17	3		22	0 4		
									13			17 31	3		22	2 1		
									17			20 57	3		22	2 5		
									20			7	21 06	3		22	2 4	
									21			7	21 50	3		22	2 5	
									Dec. 4			7	18 81	3		22	0 8	
<b>199</b> <i>Anon.</i>																		
Mar. 14	9 0	12	4	9 47	...	146	0	24 0	R	<b>204</b> <i>Anon.</i>								
<b>200</b> <i>Anon.</i>																		
Mar. 25	9 0	12	6	38 43	...	110	2	10 7	Mar. 13		12	8	8 04		90	17	34 7	
31	9 0		6	38 40	...		2	10 5	20	9 4		8	8 27			17	35 1	
Apl. 4	9 2		6	38 64	...		2	9 8	<b>205</b> <i>69 Ursæ Majoris δ</i>									
6	9 2		6	38 66	...		2	9 7	Apl. 21		12	9	11 03	...	32	16	2 6	M
<b>201</b> <i>Anon.</i>																		
Mar. 25	9 0	12	6	38 43	...	110	2	10 7	<b>206</b> <i>Anon.</i>									
31	9 0		6	38 40	...		2	10 5	May 20	9 8	12	9	25 58	...	97	16	44 8	
Apl. 4	9 2		6	38 64	...		2	9 8	21	9 8		9	25 78	...		16	46 0	
6	9 2		6	38 66	...		2	9 7	22	9 8		9	25 53	...		16	43 0	



*Separate Results of Madras Meridian Circle Observations in 1874.*

Number and Date.	Magnitude.	Mean Right Ascension 1874. h. m. s.	No. of Wires.	Mean Polar Distance 1874. ° ' "	Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1874. h. m. s.	No. of Wires.	Mean Polar Distance 1874. ° ' "	Observer.
<b>225</b> 29 <i>Virginis</i> $\gamma^2$ (South.)						May 28	...	13 3 25.72	...	94 51 50.2	R
Mar. 25	...	12 35 16.82	...	90 45 32.5	R	29	...	3 25.59	...	51 50.6	R
Apl. 6	...	35 16.61	-	45 29.2	R	30	...	3 25.54	...	51 55.9	R
15	...	35 16.57	...	45 31.6	R	June 3	...	3 25.59	...	51 57.9	M
16	...	35 16.63	...	45 32.7	R	5	...	3 25.65	...	51 55.1	M
<b>226</b> 29 <i>Virginis</i> $\gamma^1$ (North.)						6	...	3 25.64	...	51 58.1	M
Mar. 21	...	12 35 16.99	...	90 45 32.0	R	17	...	3 25.69	5	51 57.3	M
<b>227</b> R. P. L. 98.						<b>231</b> R. P. L. 101.					
Mar. 31	...	12 48 5.88	3	5 53 49.3	R	Apl. 21	...	13 8 39.66	3	1 40 28.2	M
Apl. 4	...	48 5.42	3	53 40.8	R	23	...	8 39.65	3	40 20.5	R
6	...	48 5.45	7	53 49.6	R	24	...	8 38.64	3	40 28.6	R
8	...	48 5.78	7	53 50.8	R	27	...	8 37.94	3	40 30.0	R
11	...	48 6.35	7	53 49.0	R	May 19	...	8 37.36	3	40 29.7	R
13	...	48 6.26	7	53 48.8	R	21	...	8 38.01	3	40 29.3	R
14	...	48 5.68	7	53 49.6	R	22	...	8 38.36	3	40 28.8	R
15	...	48 6.02	7	53 49.1	R	<b>232</b> 67 <i>Virginis</i> $\alpha$ , <i>Spica</i> .					
16	...	48 6.35	7	53 50.9	R	May 20	...	13 18 33.31	...	100 30 10.4	R
17	...	48 6.52	7	53 51.5	R	22	...	18 33.27	...	30 9.6	R
<b>R. P. L. 98—s.p.</b>						29	...	18 33.36	...	30 9.5	R
Oct. 7	...	12 48 6.45	3	5 53 52.8	M	June 3	...	18 33.31	...	30 12.2	M
Nov. 18	...	48 7.62	3	53 51.9	R	5	...	18 33.38	...	30 11.3	M
Dec. 15	...	48 5.76	3	53 53.4	M	6	...	18 33.36	...	30 10.1	M
16	...	48 4.94	3	53 49.9	M	9	...	18 33.32	...	30 10.5	M
18	...	48 5.15	3	53 52.0	M	12	...	18 33.35	...	30 10.7	M
19	...	48 4.97	3	53 51.9	M	19	...	18 33.38	...	30 10.8	M
<b>228</b> R. P. L. 99—s.p.						<b>233</b> Stone 7365.					
Dec. 2	...	12 48 15.83	3	5 54 7.3	R	Apl. 8	...	13 19 38.07	...	143 29 54.3	R
<b>229</b> 12 <i>Canum Venaticorum</i> $\alpha$						9	...	19 37.81	...	29 52.3	R
June 3	...	12 50 7.94	...	51 0 2.8	M	<b>234</b> Lacaille 5546.					
17	...	50 7.81	...	0 1.6	M	Apl. 15	9.0	13 20 17.98	...	143 30 36.9	R
<b>230</b> 51 <i>Virginis</i> $\theta$						16	9.0	20 17.87	...	30 37.2	R
May 20	...	13 3 25.70	...	94 51 57.3	R	<b>235</b> Anon.					
23	...	3 25.51	...	51 57.8	R	Mar. 31	9.5	13 22 22.35	...	112 31 3.5	R
25	...	3 25.57	...	51 50.4	R	Apl. 4	9.4	22 22.34	...	31 5.1	R



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		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>o.</i>	<i>'</i>	<i>"</i>				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>N</i>			
<b>236</b>	<i>x Virginis, Var. 10.</i>																	
Apl. 9		13	27	58.80	...	102	34	2.6										
11	5.8		27	58.59	...		34	2.7										
13	6.3		27	58.62	...		34	1.1										
14	...		27	58.50	...		34	2.3										
15	6.2		27	58.61	...		34	1.7										
16	6.0		27	58.82	...		34	2.3										
17	6.0		27	58.73	...		34	2.4										
20	6.0		27	58.62	...		34	1.9										
21	6.5		27	58.07	...		34	2.5										
23	6.0		27	58.63	...		34	0.6										
<b>237</b>	<i>70 Virginis ζ</i>																	
May 23		13	28	16.48	...		57	2.7										
25			28	16.42	...		57	2.6										
28			28	16.60	...		57	2.7										
30			28	16.42	...		57	1.2										
June 11			28	16.40	...		57	2.6										
12			28	16.44	...		57	3.4										
<b>238</b>	<i>Taylor 6294.</i>																	
Apl. 24	7.0	13	29	46.89		135	46	59.8										
27	6.0		29	47.01			47	1.7										
May 19	6.0		29	47.05			47	1.5										
20	6.3		29	46.98			47	1.1										
21	6.3		29	47.02			47	0.6										
<b>239</b>	<i>Anon.</i>																	
Apl. 4	8.0	13	33	27.28	...	137	40	46.2										
13	8.1		33	27.33	...		40	44.9										
15	8.0		33	27.39	...		40	45.1										
May 22	8.4		33	27.45	...		40	46.0										
25			33	27.49	...		40	45.9										
<b>240</b>	<i>Anon.</i>																	
Apl. 14	8.0	13	35	13.71	...	136	21	11.3	R									
21	7.9		35	13.92	...		21	12.9	M									
23	7.1		35	13.90	...		21	11.1	R									
24	7.8		35	13.67	...		21	12.6	R									
27	7.1		35	13.84	...		21	13.2	R									
<b>241</b>	<i>Anon.</i>																	
Apl. 8	9.1	13	35	17.10	...		136	43	10.2	R								
9	...		35	17.03	...			43	9.4	R								
June 5	9.5		35	17.19	5			43	11.2	M								
	9.6		35	17.17	...			43	11.5	M								
	9.4		35	16.89	.			43	12.8	M								
<b>242</b>	<i>Bonn + 0°. 3090.</i>																	
Mar. 31	9.5	13	35	30.31			89	28	38.7	R								
<b>243</b>	<i>Bonn + 0°. 3091.</i>																	
May 21	10.4	13	36	28.14			89	38	0.9									
30	10.0		36	28.13				38	1.7									
<b>244</b>	<i>Anon.</i>																	
May 20		13	37	9.69	...		144	41	22.5									
<b>245</b>	<i>Taylor 6363.</i>																	
May 19	8.1	13	37	17.93	...		147	36	30.4	R								
<b>246</b>	<i>Lacaille 5661.</i>																	
June 4	7.9	13	37	40.32			138	9	32.5									
18	7.6		37	40.46				9	33.2									
<b>247</b>	<i>Anon.</i>																	
Apl. 11	9.5	13	38	4.90			123	51	6.8									
May 22	9.9		38	4.97				51	7.9									
<b>248</b>	<i>Anon.</i>																	
Apl. 4	8.9	13	39	15.83			152	49	4.0	R								
<b>249</b>	<i>Anon.</i>																	
Apl. 20	8.7	13	39	44.34			138	53	10.9	M								
<b>250</b>	<i>Anon.</i>																	
Apl. 16	8.0	13	40	0.76	...		138	32	1.0	R								
23	8.0		40	0.54	...			31	59.1	R								
27	8.2		40	0.80	...			31	59.8	R								

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		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>				<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>	
<b>251</b> <i>Anon.—2nd.</i>										<b>258</b> <i>W. B. E. XIII. 1023.</i>									
Apl. 9	10.0	13	46	6.68	...	128	26	11.9	R	Mar. 31	8.2	13	59	6.60	...	102	5	54.4	R
13	10.0		46	6.75	...		26	11.2	R	Apl. 8	8.4		59	6.50	...		5	55.6	R
<b>252</b> <i>α Virginis, Var. 5.</i>										13	8.1		59	6.27	...		5	54.6	R
Apl. 8	9.0	13	47	44.83	...	78	18	54.6	R	15	8.3		59	6.36	...		5	54.9	R
<b>253</b> <i>Taylor 6473.</i>										16	8.2		59	6.44	...		5	55.5	R
Mar. 31	...	13	48	21.85	...	97	26	16.2	R	20	8.3		59	6.30	...		5	55.8	M
<b>254</b> <i>8 Bootis η</i>										21	8.6		59	6.41	...		5	57.2	M
Apl. 17	...	13	48	41.15	...	70	58	11.5	R	<b>259</b> <i>W. B. E. XIII. 1070.</i>									
24	...		48	41.09	...		58	9.2	R	Apl. 4	8.5	14	1	38.72	...	101	57	55.8	R
May 21	...		48	41.10	...		58	10.9	R	17	8.1		1	38.55	...		57	55.1	R
22	...		48	41.12	...		58	9.8	R	24	8.8		1	38.61	...		57	55.4	R
26	...		48	41.12	...		58	10.9	R	27	8.5		1	38.76	...		57	56.6	R
28	...		48	41.14	...		58	11.8	R	May 20	8.4		1	38.74	...		57	54.9	R
30	...		48	41.14	...		58	10.4	R	21	8.4		1	38.59	...		57	55.3	R
June 6	...		48	41.14	...		58	10.9	M	22	8.4		1	38.77	...		57	54.6	R
9	...		48	41.18	...		58	11.8	M	<b>260</b> <i>R. P. L. 108.</i>									
11	...		48	41.09	...		58	9.4	M	June 4	...	14	2	37.90	3	3	38.19.3	M	
12	...		48	41.14	...		58	10.7	M	5	...		2	38.08	3		38	19.4	M
17	...		48	41.10	...		58	9.9	M	8	...		2	38.36	3		38	19.8	M
19	...		48	41.09	...		58	10.0	M	9	...		2	40.50	3		38	19.0	M
29	...		48	41.24	...		58	12.3	M	<i>R. P. L. 108—s.p.</i>									
<b>255</b> <i>Anon.</i>										Oct. 28	...	14	2	37.27	5	3	38	22.2	M
Apl. 4	10.2	13	52	1.33	...	108	33	34.7	R	Nov. 12	...		2	39.11	3		38	20.1	R
<b>256</b> <i>Anon.</i>										<b>261</b> <i>Anon.</i>									
Apl. 9	9.7	13	53	1.60	...	128	4	22.2	R	Apl. 23	9.1	14	3	3.90	...	101	48	17.3	R
11	9.5		53	1.52	...		4	23.9	R	May 30	9.5		3	3.84	...		48	18.0	R
14	9.7		53	1.64	...		4	21.4	R	June 6	9.6		3	4.06	...		48	18.8	M
<b>257</b> <i>β Centauri.</i>										18	9.4		3	4.01	...		48	17.7	M
May 19	...	13	54	57.02	...	149	45	49.1	R	<b>262</b> <i>Bootis, Var. 4.</i>									
23	...		54	56.76	...		45	49.7	R	Apl. 18	9.2	14	4	51.07	...	79	35	22.1	R
June 29	...		54	56.82	...		45	51.5	M	14	9.3		4	51.11	...		35	22.8	R
										16	9.1		4	51.14	...		35	21.5	R

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		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>				<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>	
<b>263</b> <i>Anon.</i>										May 28	8.3	14	16	54.16	...	102	24	23.2	R
Mar. 31	9.0	14	6	45.97	...	102	20	58.6	R	29	8.3		16	54.18	..		24	21.5	R
Apl. 8	9.1		6	46.15	...		20	59.6	R	<b>270</b> <i>Lacaille 5926.</i>									
15	9.1		6	45.95	...		20	57.8	R	Apl. 17	9.1	14	17	15.01	...	119	2	45.0	R
27	8.2		6	46.08	...		21	0.2	R	<b>271</b> <i>Taylor 6721.</i>									
May 19	9.2		6	46.02	...		20	58.9	R	Apl. 23	7.2	14	17	54.46	...	101	5	46.2	R
21	9.4		6	45.89	..		21	0.0	R	<b>272</b> <i>Anon.</i>									
22	9.4		6	45.90	...		20	59.0	R	May 22	10.3	14	18	0.86	...	123	16	9.9	R
23	..		6	45.86	..		20	59.5	R	June 18	10.0		18	0.72	...		16	10.6	M
<b>264</b> <i>16 Bootis α, Arcturus.</i>										<b>273</b> <i>W. B. E. XIV. 315.</i>									
May 26	..	14	9	54.83	...	70	9	39.1	R	Apl. 11	6.5	14	18	28.27	...	102	46	55.7	R
June 8	..		9	54.95	...		9	40.1	M	May 20	7.1		18	28.27	...		46	54.1	R
9	..		9	54.91	...		9	39.7	M	21	7.0		18	28.24	...		46	53.6	R
11	..		9	54.97	...		9	38.0	M	30	7.1		18	28.35	..		46	52.9	R
19	..		9	54.94	...		9	37.7	M	June 4	6.9		18	28.45	...		46	56.2	M
<b>265</b> <i>Anon.</i>										5	6.9		18	28.42	...		46	55.3	M
Apl. 16	8.0	14	10	28.55	...	128	18	0.6	R	8	6.5		18	28.18	...		46	54.2	M
17	8.1		10	28.50	...		17	58.7	R	9	6.5		18	28.40	...		46	56.2	M
23	8.3		10	28.48	...		17	58.9	R	<b>274</b> <i>W. B. E. XIV. 360.</i>									
24	8.8		10	28.26	...		17	58.9	R	Mar. 31	8.0	14	20	55.71	..	102	47	29.3	R
<b>266</b> <i>Anon.</i>										Apl. 4	7.8		20	55.59	...		47	28.5	R
Apl. 9	9.4	14	13	9.36	...	136	52	40.2	R	8	7.8		20	55.48	...		47	30.5	R
11	9.4		13	9.29	...		52	41.6	R	15	8.0		20	55.36	...		47	28.7	R
<b>267</b> <i>W. B. E. XIV. 240.</i>										24	8.0		20	55.50	...		47	28.4	R
Mar. 31	9.0	14	15	2.32	..	102	36	17.8	R	27	7.8		20	55.42	...		47	27.6	R
Apl. 4	9.0		15	2.18	...		36	17.7	R	May 19	8.0		20	55.62	..		47	29.8	R
8	9.0		15	2.29	...		36	20.3	R	June 12	7.7		20	55.60	...		47	29.5	M
14	9.2		15	2.24	...		36	17.1	R	17	..		20	55.46	...		47	28.1	M
15	9.1		15	2.22	...		36	16.6	R	<b>275</b> <i>W. B. E. XIV. 392.</i>									
<b>268</b> <i>Anon.</i>										Apl. 16	9.1	14	22	44.52	...	103	15	36.4	R
Apl. 13	9.0	14	15	54.90	...	122	14	21.7	R	May 20	9.4		22	44.52	...		15	35.1	R
<b>269</b> <i>W. B. E. XIV. 280.</i>										21	9.4		22	44.43	...		15	35.8	R
Apl. 27	7.8	14	16	54.04	...	102	24	22.6	R	22	9.4		22	44.38	...		15	35.4	R
May 19	8.1		16	54.19	...		24	22.6	R	23	..		22	44.37	...		15	36.5	R
23	.		16	53.98	...		24	22.6	R	28	8.3		22	44.40	...		15	38.2	R

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		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>				<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>	
<b>276</b> <i>W. B. E. XIV. 410.</i>										<b>285</b> <i>36 Bootis <math>\epsilon^2</math>, Mirac.</i>									
Apl. 9	9.0	14	23	55.48	...	103	2	38.1	R	Apl. 23	...	14	39	29.06	...	62	23	37.3	R
13	9.0		23	55.30	.		2	36.0	R	27	...		39	28.98	...		23	36.6	R
14	9.3		23	55.25	...		2	36.7	R	May 19	...		39	29.13	...		23	36.8	R
<b>277</b> <i>25 Bootis <math>\rho</math></i>										22	...		39	29.02	...		23	38.5	R
June 4	..	14	26	23.94	...	59	4	29.3	M	26	...		39	29.16	...		23	36.7	R
24	...		26	23.99	...		4	29.4	M	June 4	...		39	29.11	...		23	37.8	M
<b>278</b> <i>W. B. E. XIV. 458.</i>										5	...		39	29.00	...		23	38.3	M
Mar. 31	9.0	14	26	42.14	...	103	31	11.1	R	18	...		39	29.13	...		23	37.9	M
Apl. 4	9.5		26	41.95	...		31	10.0	R	24	...		39	29.05	...		23	36.9	M
8	9.6		26	42.04	...		31	10.9	R	29	...		39	29.03	...		23	36.7	M
11	9.5		26	41.92	...		31	13.7	R	July 1	...		39	29.06	...		23	35.7	R
15	10.0		26	41.94	...		31	10.3	R	3	...		39	29.10	...		23	36.8	R
<b>279</b> <i>O. A. N. 14652.</i>										9	...		39	29.10	...		23	35.9	R
June 8	8.6	14	27	9.79	...	20	9	42.2	M	<b>286</b> <i>Anon.</i>									
<b>280</b> <i>Anon.</i>										Mar. 31	9.0	14	43	2.61	...	129	9	22.2	R
May 22	9.8	14	27	19.80	...	123	22	43.0	R	<b>287</b> <i>8 Libræ <math>\alpha^1</math></i>									
30	9.8		27	19.74	...		22	41.4	R	Apl. 4	6.0	14	43	43.01	...	105	28	17.8	R
June 6	9.3		27	19.76	...		22	42.8	M	8	6.0		43	43.01	...		28	18.3	R
<b>281</b> <i>W. B. E. XIV. 512.</i>										<b>288</b> <i>9 Libræ <math>\alpha^2</math></i>									
Apl. 16	9.0	14	29	26.75	...	103	28	34.1	R	June 8	..	14	43	54.59	...	105	31	2.8	M
17	9.0		29	26.75	...		28	36.7	R	29	...		43	54.55	...		31	1.7	M
<b>282</b> <i>R Bootis, Var. 1</i>										July 2	...		43	54.58	...		31	1.2	R
Apl. 8	8.0	14	31	38.34	..	62	42	56.6	R	<b>289</b> <i>Anon.</i>									
9	..		31	38.28	...		42	55.8	R	Apl. 9	8.1	14	46	1.82	.	101	51	52.5	R
<b>283</b> <i>Anon.</i>										11	8.0		46	1.80	...		51	52.2	R
Mar. 31	10.0	14	35	17.79	...	61	58	39.7	R	<b>290</b> <i>13 Libræ <math>\zeta^1</math></i>									
<b>284</b> <i>Anon.</i>										Apl. 16	6.1	14	47	32.49	...	101	22	55.6	R
Apl. 4	9.3	14	37	16.25	...	150	19	56.2	R	17	6.2		47	32.51	...		22	57.2	R
11	9.3		37	16.07	..		19	58.7	R	23	6.3		47	32.30	...		22	53.9	R
15	9.6		37	16.02	...		19	56.9	R	<b>291</b> <i>Anon.</i>									
										May 21	9.8	14	48	16.68	...	150	43	27.2	R
										22	9.8		48	16.72	...		43	26.5	R

*Separate Results of Madras Meridian Circle Observations in 1874.*

Number and Date.	Magnitude.	Mean Right Ascension 1874.			No. of Wires.	Mean Polar Distance 1874.			Observer.
		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>	
<b>292</b> <i>Anon.</i>									
May 19	9.1	14	51	1.72	...	130	34	40.7	R
30	9.2		51	1.71	...		34	39.0	R
<b>293</b> <i>Anon.</i>									
Apl. 9	9.0	14	51	42.77	...	39	22	4.8	R
11	9.0		51	42.58	...		22	4.7	R
27	9.2		51	42.79	...		22	4.0	R
<b>294</b> <i>Anon.</i>									
Mar. 31	9.0	14	52	12.40	...	123	15	12.4	R
Apl. 8	9.0		52	12.15	...		15	10.8	R
<b>295</b> <i>Taylor 6991.</i>									
May 23	...	14	52	12.33	...	39	51	20.3	R
28	5.5		52	12.22	...		51	20.0	R
<b>296</b> <i>O. A. N. 14999.</i>									
Apl. 24	9.0	14	53	52.42	5	41	27	50.5	R
May 22	9.3		53	52.61	...		27	52.0	R
June 5	8.7		53	52.80	...		27	50.7	M
<b>297</b> <i>O. A. N. 15004.</i>									
Apl. 17	7.9	14	54	12.44	...	39	23	27.8	R
<b>298</b> <i>19 Libræ δ, Var. 4.</i>									
May 29	...	14	54	14.70	...	98	1	3.9	R
June 6	5.8		54	14.57	...		1	4.4	M
8	5.9		54	14.53	...		1	3.3	M
17	5.2		54	14.48	...		1	4.2	M
18	5.3		54	14.72	...		1	3.8	M
<b>299</b> <i>Anon.</i>									
Apl. 8	...	14	58	21.26	...	131	33	6.3	R
<b>300</b> <i>43 Bootis ψ</i>									
July 2	...	14	59	2.89	...	62	33	36.9	R
7	...		59	2.81	...		33	34.8	R
9	...		59	2.86	...		33	34.0	R
<b>301</b> <i>47 Bootis κ</i>									
Apl. 11	6.0	15	1	15.39	...	41	21	40.7	R
17	...		1	15.37	...		21	40.4	R
May 19	6.2		1	15.51	...		21	41.0	R
20	6.8		1	15.41	...		21	40.8	R
<b>302</b> <i>Anon.</i>									
Apl. 23	8.9	15	1	30.30	...	97	24	40.9	R
24	9.0		1	30.31	...		24	42.6	R
27	8.8		1	30.34	...		24	43.7	R
<b>303</b> <i>Anon—2nd.</i>									
Apl. 9	8.6	15	4	10.30	...	122	21	1.2	R
May 28	8.9		4	10.96	...		21	5.0	R
<b>304</b> <i>O. A. N. 15138.</i>									
May 29	...	15	4	27.72	...	43	2	22.3	R
July 3	9.0		4	27.97	...		2	22.7	R
<b>305</b> <i>R. P. L. 111—s.p.</i>									
Jan. 14	...	15	4	34.75	3	5	33	47.9	M
15	...		4	34.32	3		33	42.8	M
16	...		4	34.85	3		33	46.6	M
Dec. 25	...		4	33.25	3		33	44.7	M
<b>306</b> <i>W. B. E. XV. 86.</i>									
Apl. 8	9.2	15	7	3.72	...	98	4	9.5	R
<b>307</b> <i>Anon.</i>									
Apl. 27	8.8	15	7	18.60	...	98	17	39.5	R
May 23	...		7	18.41	...		17	39.1	R
30	8.8		7	18.55	...		17	36.5	R
July 7	...		7	18.46	...		17	35.5	R
9	8.2		7	18.46	...		17	36.4	R
<b>308</b> <i>Anon.</i>									
June 18	8.8	15	7	22.17	6	130	23	47.4	M
July 15	9.0		7	22.02	...		23	44.7	R

*Separate Results of Madras Meridian Circle Observations in 1874.*

Number and Date.	Mean Right Ascension 1874.			Wi	Mean Polar Distance 1874.	Number and Date.	Magnitude.	Mean Right Ascension 1874.			Wi	Mean Polar Distance 1874.	
	h.	m.	s.					h.	m.	s.			
<b>309</b> 27 Libræ β													
Apl. 17	15	10	13.70	...	98 54 59.5	July 3	9.0	15	17	43.38	...	130 5 50.0	
23		10	13.70	...	54 57.5	20	9.1		17	43.42	...	5 47.8	
June 4		10	13.66	...	55 0.6	21	9.2		17	43.45	...	5 47.5   R	
8		10	13.64	...	55 0.8	<b>316</b> R. P. L. 114—s.p.							
24		10	13.68	...	54 59.0	Jan. 31	...	15	18	37.54	3	2 17 12.8	
July 1		10	13.63	...	54 58.6	<b>317</b> W. B. E. XV. 319.							
4		10	13.75	...	54 59.6	Apl. 17	9.0	15	18	44.26	...	102 25 26.1	
14		10	13.64	...	54 58.8	23	9.1		18	44.38	...	25 25.5	
16		10	13.70	...	54 59.6	<b>318</b> Anon.							
<b>310</b> Redhill 2293—s.p.													
Jan. 17	15	13	24.17	3	4 23 18.2	Apl. 27	9.0	15	22	19.46		129 23 7.7   R	
19		13	23.95	3	23 18.8	May 23	9.2		22	19.54		23 6.8   R	
27		13	24.30	3	23 20.0	<b>319</b> Anon.							
		13	24.04	3	23 19.9	Apl. 11	8.6	15	23	2.41		125 12 16.4	
<b>311</b> Anon.													
Apl. 9	9.0	15	14	49.56	...	123 9 44.2	<b>320</b> Anon.						
<b>312</b> Lacaille 6354.													
Apl. 11	9.0	15	15	38.41	...	124 17 24.2	Apl. 23	9.6	15	25	12.66	...	130 12 0.1
27	8.9		15	38.26	...	17 23.6	May 19	9.6		25	12.93	...	11 2.1
May 19	9.1		15	38.55	...	17 22.1	20	9.7		25	12.90	...	11 2.0
<b>313</b> S Coronæ Borealis, Var. 2.													
May. 23	7.2	15	16	15.95	...	53 10 43.7	<b>321</b> Lacaille 6421.						
29	...		16	16.07	...	10 43.3	Apl. 17	8.0	15	26	16.54		122 44 37.8   R
30	7.2		16	16.17	...	10 43.1	<b>322</b> Lalande 28320.						
June 5	7.3		16	15.93	...	10 42.3	Apl. 27	8.2	15	27	2.76		103 48 11.8
9	7.4		16	15.94	...	10 43.0	May 21	8.3		27	2.35		43 9.9
18	6.2		16	16.98	...	10 41.9	23	8.2		27	2.66		43 11.8
29	6.4		16	15.72	...	10 43.3	29	...		27	2.56		43 10.8
<b>314</b> W. B. E. XV. 290.													
May 20	8.5	15	17	33.37	102 27 24.7	<b>323</b> 5 Coronæ Borealis a							
23	...		17	34.03	27 26.3	May 30		15	29	21.31	...	62 51 35.6	
July 1	8.3		17	33.33	27 24.1	July 2			29	21.20	...	51 35.6	
2	8.2		17	33.37	27 24.6	4			29	21.13	...	51 35.4	
						7			29	21.21	...	51 34.6	
						14			29	21.16	...	51 36.3	
						20			29	21.13	...	51 36.3	
						21			29	21.16	...	51 36.7	